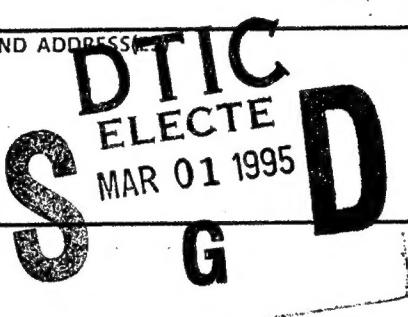


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13. ABSTRACT (Maximum 200 words) THIS DRAFT FINAL REPORT DOCUMENTS THE PHASE I CONTAMINATION SURVEY OF SITE 1-10, A STORAGE TANK FARM CONSTRUCTED IN 1942. 30 SAMPLES FROM 13 BORINGS WERE ANALYZED FOR VOLATILE AND SEMIVOLATILE ORGANICS AND METALS WITH SEPARATE ANALYSES FOR HG, AS, AND DBCP. C6H6, DCPD, DILDRN, CH2CL2, CU, CR, PB, HG, AND ZN WERE DETECTED IN THE SAMPLES. A PHASE II PROGRAM CONSISTING OF 15 ADDITIONAL SAMPLING POINTS IS RECOMMENDED. A SOIL GAS PROGRAM IS ALSO PROPOSED FOR THE SITE. THE VOLUME OF POTENTIALLY CONTAMINATED SOIL PRESENT IS ESTIMATED AT 88,142 CUBIC FEET. APPENDICES: PHASE I ANALYTICAL PARAMETERS, SUMMARY OF CHEMICAL DATA.		
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TASK NO. 2 - SOUTH PLANTS
DRAFT FINAL SOURCE REPORT
SITE 1-10

October 1986
Contract No. DAAK11-D-0017

Rocky Mountain A-1

EBASCO SERVICES INCORPORATED
R.L. STOLLAR AND ASSOCIATES
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TASK NO. 2 - SOUTH PLANTS
DRAFT FINAL SOURCE REPORT
SITE 1-10

October 1986
Contract No. DAAK11-D-0017

Rocky Mountain Arsenal
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PHASE I CONTAMINATION ASSESSMENT RESULTS
AND PHASE II SAMPLING DESIGN
FOR SITE 1-10, SOUTH TANK FARM

1.0 PHYSICAL SETTING

1.1 LOCATION

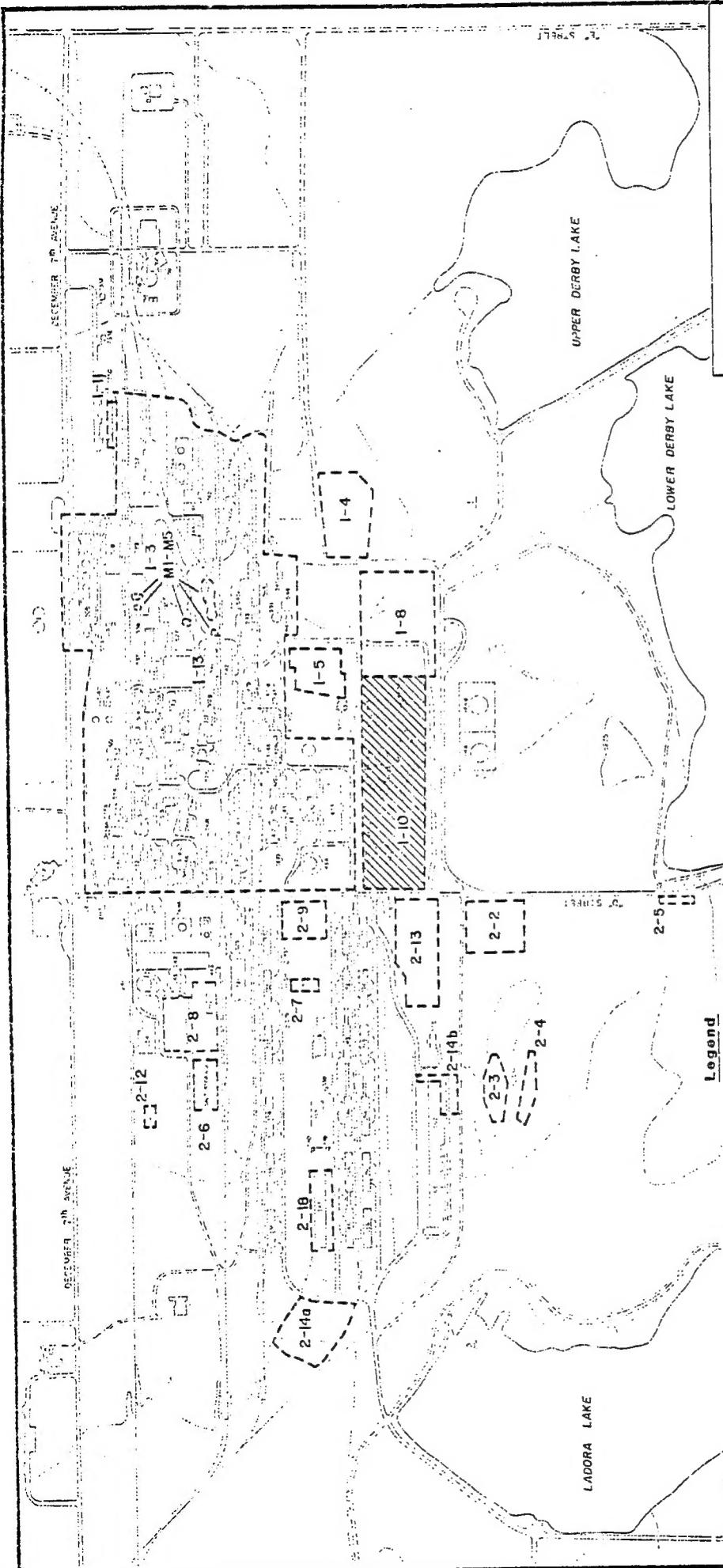
The south tank farm, Site 1-10, is located in the northwestern quarter of Section 1 at the Rocky Mountain Arsenal (RMA). The site is north of Lower Derby Lake and immediately west of Site 1-8, the salvage yard, as shown in Figure 1.1-1. Building 461, a pump house, is located within the site. Tanks 462A, 462B (removed), 463A, 463B, 463C, 463D (removed), 463E (removed), 463F, 463G, and 463H were located on the site. The tank farm covers an approximate area of 600,000 square feet (ft^2) of which about 442,500 ft^2 are not occupied by tanks. Figure 1.1-2 is a vicinity map of Site 1-10. Photographs of Site 1-10 are shown in Figure 1.1-3.

The south tank farm was originally considered to be a contaminated site. The extent of contamination at this site has been estimated as follows (RMACCPMT, 1984):

Estimated Areal Extent = $473,600\ ft^2$,
Estimated Vertical Extent = 10 ft, and
Estimated Volume = 175,000 cubic yards (yd^3).

1.2 GEOLOGY

Site 1-10 is part of the RMA South Plants complex, which is constructed on a southward-facing slope of a bedrock topographic high. The bedrock consists of 250 to 400 ft of interbedded claystone, clays, silts, sands, and sandstones of the Denver Formation (May et al., 1983). As borings in the immediate area do not penetrate through the Denver Formation, the total thickness of the formation at this site is unknown. A detailed description of the Denver Formation is found in May et al. (1983). Approximately 5 to 10 ft of alluvium overlies the Denver Formation; this consists of aeolian silts and sands over



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Rocky Mountain Arsenal Cleanup
Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

FIGURE 11-1

Location Map - South Plants

Rocky Mountain Arsenal, Task 2

Prepared by: Ebasco Services Incorporated

Section 2

SECTION 2

2-2 Burn Site

2-3 Lagoon

2-4 Excavation Pit

2-5 Trench

2-6 Salt Storage Pad

2-7 Aeration Basin

2-8 Former Tank Storage Areas

2-9 Open Storage Area

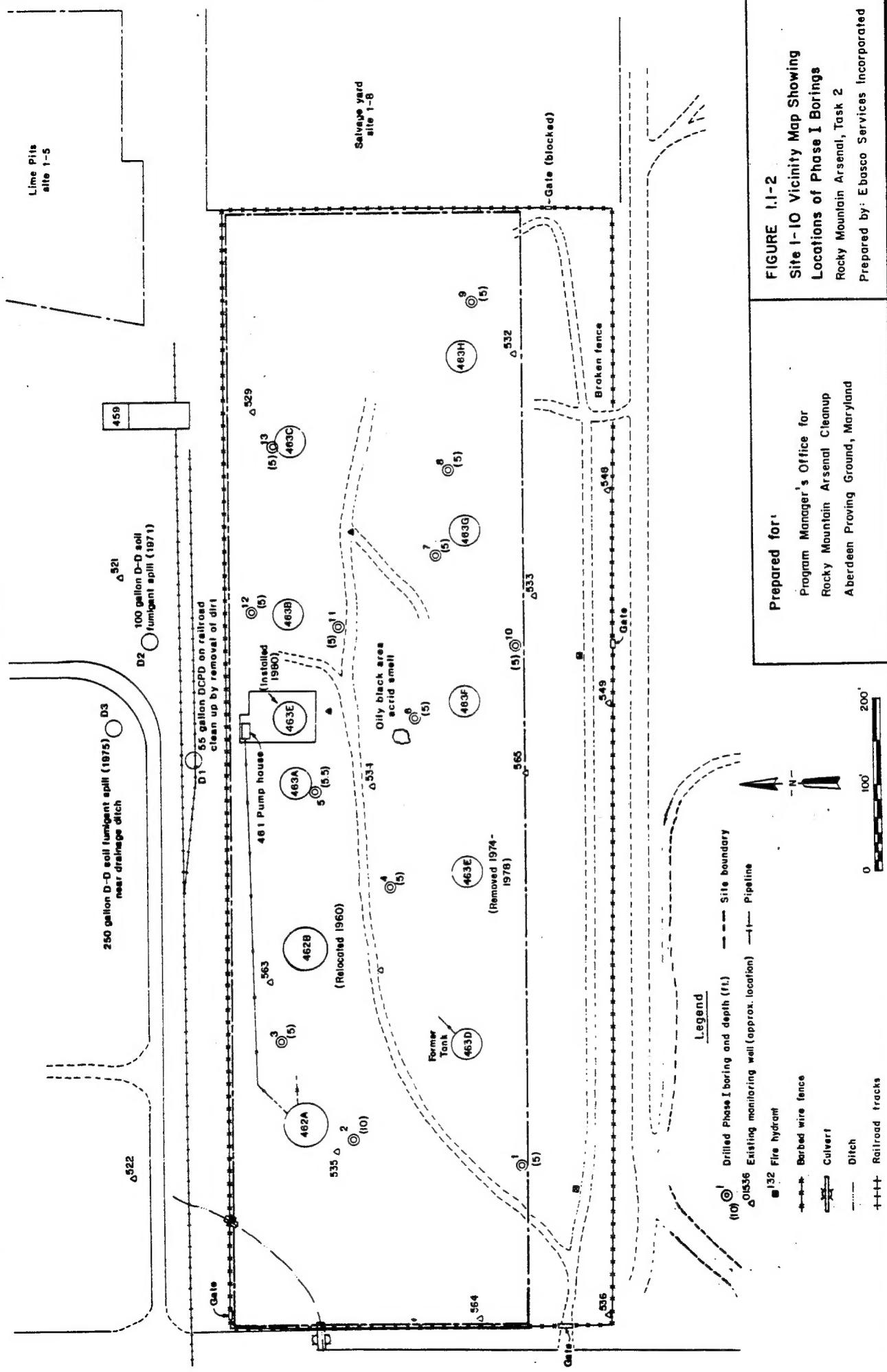
2-12 Rotted Tank Storage Area

2-13 Former Open Storage Area

2-14 Sanitary Landfill

2-15 South Plants Spill Site, Section 2

FIGURE 11-1



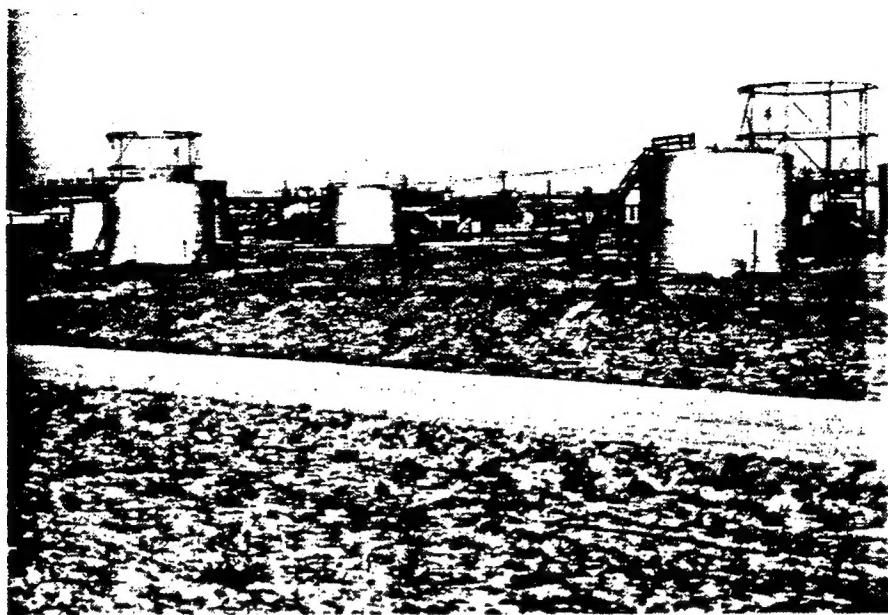


FIGURE 1.1-3 SITE 1-10 SOUTH TANK FARM
Looking Northeast at Tank in West Part of Site

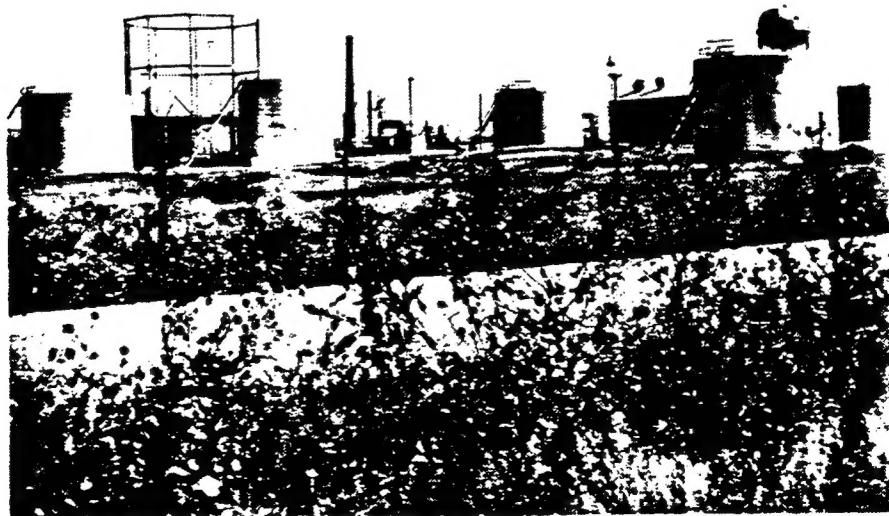


FIGURE 1.1-3 SITE 1-10 SOUTH TANK FARM
Looking Northeast at Tanks in East Part of Site

interbedded clays, silts, and sands (May et al., 1983). Descriptions of the geologic materials found at various depths during the Phase I program are presented in Table 3.1-1 of this report.

1.3 HYDROLOGY

Site 1-10, the south tank farm, is at an approximate elevation of 5,265 ft above mean sea level. Surface drainage at the site flows west to Sand Creek Lateral (Resource Consultants, 1982).

The primary groundwater flow across RMA is toward the northwest, but in the vicinity of the South Plants, a localized groundwater mound diverts the direction of the regional groundwater flow. As a result, groundwater flow at the south tank farm is to the southwest, towards Lake Ladora. Information based on water-table elevations developed from 1981 data on wells near the tank farm indicated depth to water ranges from 11 to 19 ft across the site (D. P. Associates, 1985). The water table was penetrated at a depth of 7.5 ft during the Phase I investigations.

Water quality data are available for both surface and groundwater in the vicinity of Site 1-10. The site is at the southeastern end of, and almost entirely within, Watershed 6, as described in a "Surface Water Quality Study of the South Plants Area" (Spaine & Gregg, 1983). Surface water sampled from May through July 1983 at the western outflow of this 99.15-acre watershed contained detectable levels of chloroform and methyl isobutyl ketone (MIBK), as well as high concentrations of aldrin, benzene, dieldrin, endrin, and isodrin.

Between 1979 and 1983, organic compounds were detected in water-quality samples taken from wells 521, 522, 529, 532, 533, 534, 535, 536, 548, 549, 563, 564, and 565 (see Figure 1.1-2). These included aldrin, benzene, bicycloheptadiene, chlorobenzene, chloroform, chlorophenylmethyl sulfone, dibromochloropropane (DBCP), dicyclopentadiene (DCPD), dieldrin, endrin, hexachlorocyclopentadiene, methyl isobutyl ketone (MIBK), tetrachloroethane (PCE), and toluene. These data are provided for background purposes and are

not intended to be correlated with soil chemistry data obtained in the current study.

2.0 HISTORY

2.1 CONSTRUCTION

The south tank farm was constructed in 1942 as part of the initial construction of RMA (Army Materiel Command, 1973). Building 461, a pump house, was built at the site during the same period (Army Materiel Command, 1973). Ten storage tanks (462A, 462B, and 463 A-H), revetted by soil, were installed at the site in 1942. These tanks were set directly on the ground; undermining was a problem at times (Knaus, 1978).

In late 1960, Tank 462B was removed from the tank farm and relocated at the boiler house fuel oil storage site, north of Building 325 in Section 2, just south of Site 2-8 (Williams, 1960b). The 10,000 barrel-tank was renumbered as "321E" and was used for fuel storage (Williams, 1960a).

Between 1974 and 1978, Storage Tank 463E was removed from Site 1-10; old Tank 463E has been replaced with a new tank (Stout & Abbott, 1982; Knaus, 1978; Unauthored, Undated-a). A tank, numbered as Tank 463E in Figure 1.1-2, south of Building 461 and immediately adjacent to Tanks 463A and 463B, appears on the aerial photographs beginning in 1980 (Stout & Abbott, 1982).

After 1980 and prior to 1982, Tank 463D was removed from the south tank farm. A September 1980 aerial photograph (Stout & Abbott, 1982) shows Tank 463D in Site 1-10. The tank is not present in a 1982 aerial photograph. A survey performed by Harland Bartholomew & Associates in 1982 indicated that the tank was not present (HB&A, 1982).

Aerial photographs, 1948-1980, yielded the following information about Site 1-10 (Stout & Abbott, 1982):

<u>Photo Date</u>	<u>Site Description</u>
1948	Ten tanks are visible; each tank is revetted with earth.
1955	No change apparent from 1948.
1966	The revetment for Tank 462B is visible, but the tank has been removed. No other change is visible.
1970	The revetment for former Tank 462B is barely visible. Tank 462B has not been replaced. No other change is visible.
1980	The revetment for Tank 463E is visible, but the tank has been removed. The revetment for former Tank 462B is barely discernible; the area has revegetated. The pumphouse has been constructed between Tanks 463A and 463B.

2.2 USES

Site 1-10 consists of storage tanks that have held a variety of fluids. These tanks were initially used by the Army and then leased to Colorado Fuel & Iron, Julius Hyman & Co., and Shell Chemical Company. The following information from the Army Materiel Command (1973), Shell (1985), and other sources summarizes the contents of these tanks:

<u>Tank</u>	<u>Capacity (gallons)</u>	<u>Description</u>
462A	417,000	Used for fuel oil storage by the Army (Army Materiel Command, 1973). Hyman and Shell both used the tank to store DCPD. The tank was cleaned and an epoxy-coated bottom was installed in the late 1970s (Shell, 1985).

<u>Tank</u>	<u>Capacity (gallons)</u>	<u>Description</u>
462B	417,000	Used for fuel oil storage by the Army. Shell stored crude BCH bottoms. The tank was relocated from the South Tank Farm in 1960. The tank was renumbered "321E" and is now located west of Building 242 and north of Building 321 and 325.
463A	196,000	Used for alcohol storage by the Army. Hyman and Shell both used the tank for isopropyl alcohol storage and water for their endrin processes. The tank was later used to store spent sulfuric acid for the Planavin Plant.
463B	196,000	Used for alcohol storage by the Army. Shell used the tank to store D-D soil fumigant (Knaus, 1973) and spent sulfuric acid.
463C	196,000	Used for alcohol storage. Also used to store DCPD (Knaus, 1973) and Nemagon.
463D	196,000	Used to store alcohol, BCH bottoms, and, later, spent sulfuric acid. Tank 463D has been removed.
Old 463E	196,000	Used to store alcohol, BCH bottoms, sulfuric acid, and DBCP, successively. Old Tank 463E has been removed. (The tank currently labeled as Tank 463E is a new tank.)
463F	196,000	Used to store alcohol and BCH bottoms, successively.

<u>Tank</u>	<u>Capacity (gallons)</u>	<u>Description</u>
463G	196,000	Used to store alcohol, DCPD bottoms, and sulfuric acid, successively.
463H	196,000	Used to store alcohol and sulfuric acid, successively.

Liquid from tank cars located north of the site was unloaded adjacent to Pumphouse 461. No waste disposal has been reported at this site, but six spills have been reported. In 1948, a 100,000-gallon benzene spill occurred in this area while the tanks were under lease to Colorado Fuel and Iron. The location of this spill is unknown. A 1,400-gallon spill of bicycloheptadiene in 1956, a 1,500-gallon spill of dicyclopentadiene/No. 6 fuel oil in 1967, a 1,548-gallon spill of dicyclopentadiene/No. 6 fuel oil on August 8, 1976 (or September 1978), and a 50,864-gallon spill of bicycloheptadiene in September 1978 have been reported in this area. In addition, between 1967 and 1975, an estimated 55 gallons of spent acid was spilled. The exact location of these spill areas is unknown.

3.0 EXTENT OF CONTAMINATION

3.1 SOILS

3.1.1 Previous Soil Investigations

No previous site-specific soil investigations for the south tank farm have been identified. A general soil map for the area indicates that the soil type for the site is a Truckton loamy sand with a 1 to 3 percent slope on the west and a 3 to 9 percent slope on the east (Unauthored, Undated-b).

3.1.2 Phase I Contamination Survey

3.1.2.1 Phase I Program

Based on the boring density criteria from the Task 2 Technical Plan (Ebasco, 1985), 13 borings on a grid pattern were planned for Site 1-10. Depths of the soil borings were determined based on the criteria described in the Task 2 Technical Plan. Approximately 20 to 25 percent of the borings were

planned to be drilled to the top of the water table, through the entire length of the unsaturated zone. Twenty to 25 percent of the borings were planned to be drilled approximately to 2/3 the total depth of the unsaturated zone, and the remaining borings were planned to be drilled approximately to the top 1/3 of the total unsaturated soil column. Depths of the 13 borings, as described in the Technical Plan, were estimated assuming that the groundwater table was at approximately 11 to 19 ft below land surface.

The Phase I boring program was to be conducted using a continuous core augering technique, as described in the Task 2 Technical Plan. Samples were to be obtained at the 0-1 ft interval, the 4-5 ft interval, and subsequently at 5 ft intervals (e.g., 9-10 ft, 14-15 ft, etc.). If observable contamination was noted in other intervals of the core by the field geologist, these intervals were also to be sent to the laboratory for analysis.

Field reconnaissance was performed to stake the boring locations prior to drilling. A geophysical survey of all 13 Site 1-10 boring locations was conducted to clear boring locations to ensure that the drilling would not penetrate underground piping. Based on available information, no areas of potential unexploded ordnance, buried metal, or other buried objects were believed to be in the immediate vicinity of Site 1-10, so detailed geophysical surveys were not conducted for this site. No borings were significantly moved as a result of this survey (Technos, 1985). All borings were drilled as shown in the Task 2 Technical Plan. The original site boundaries were also maintained. Figure 1.1-2 shows the layout of Site 1-10 and the locations of Phase I borings.

The water table was encountered at a depth of 7.5 ft during the drilling of Boring 2. Based on this water table depth, the depths of subsequent borings were revised. The actual depth of each boring and the number of soil samples collected are summarized as follows:

<u>Boring No.</u>	<u>Depth (ft)</u>	<u>No. of Samples</u>
1	5	2
2	10	4
3	5	2
4	5	2
5	5.5	3
6	5	3
7	5	2
8	5	2
9	5	2
10	5	2
11	5	2
12	5	2
13	5	2

Boring 2 was drilled beyond the water table (encountered at 7.5 ft) to a total depth of 10 ft. The other borings were completed at depths above the water table. A total of 30 soil samples were collected from the 13 borings completed in Site 1-10.

All samples were analyzed by gas chromatograph/mass spectrometry (GC/MS) for semivolatile organics; by an inductively-coupled argon plasma (ICP) metals screen for metals; and by separate analyses for mercury, arsenic, and dibromochloropropane (DBCP). All samples from depths greater than the 0-1 ft interval were analyzed by GC/MS for volatile organics. Appendix A presents the specific constituents for which laboratory analyses were conducted.

3.1.2.2 Phase I Field Observations

Most of the drilling at Site 1-10 was completed without difficulty. In-situ air monitoring was conducted during drilling operations using a photoionization detector (HNU) and an organic vapor analyzer (OVA). HNU readings significantly above background were recorded at Borings 1, 2, 4, 5, 6, and 11. OVA readings significantly above background were recorded only at

Boring 5. The results of the volatile organic readings down the borings at the sampled depths are presented in Table 3.1-1.

Because of unusual air monitoring measurements and/or water levels in the soil, additional samples were taken at the 6-6.5 ft interval of Boring 2, the 5-5.5 ft interval of Boring 5, and the 3.5-4 ft interval of Boring 6.

Each boring was also monitored for chemical agents using an M8 alarm. The M8 alarm sounded at a depth of 10 ft while drilling Boring 2. However, the M8 reading could not be verified by either a second M8 or by the M18A2 test kit. No positive indications of possible chemical agents were detected. An M260 meter was used to detect oxygen concentrations and explosive levels. No significant deviations from background were noted. Samples were also screened with the M18A2 kit. All results from utilizing this kit were negative for chemical agents.

No unexploded ordnance, buried metal, or other buried objects were detected during drilling. No unusual coloring or staining on the core samples were noted.

3.1.2.3 Phase I Contaminant Levels and Distribution

The results of geologic field observations, air monitoring during drilling, and the chemical analysis of each soil sample are summarized in Table 3.1-1. Samples were taken at the planned intervals for each boring. As shown in this table, samples were taken at additional intervals because of field observations and instrument readings.

Soil samples were analyzed for the chemical constituents listed in Appendix A. The number of samples containing these constituents; the concentration range, median, mean, and standard deviation; and indicator level are listed in Table 3.1-2. A tabulation of all Phase I analytical data from sampled intervals is presented in Appendix B, and a tabulation of the data from analysis of the blanks is presented in Appendix C.

Table 3.1-1 (Site 1-10). Results of Phase I Field Study, Site 1-10, South Tank Farm.

Geologic Material	Depth (feet)	Boring 1		Boring 2		Boring 3		Boring 4	
		0-1 Silty Sand	4-5 Sand	0-1 Silty Sand	4-5 Sandy Clay	9-10 ^{**} Sandy Clay	0-1 Silty Sand	4-5 Clay	0-1 Silty Sand
Percent Fines	10	0	20	60	100	60	10	100	5
AIR MONITORING									
Volatile Organic Readings (ppm)									
HNU HNU background	0.4 0.4	2.2 0.4	0.7 0.5	0.6 0.5	NR NR	5.0-15 ^{oc} 0.5	0.2 0.2	1.0 0.2	0.6 0.6
OVA OVA background	1.4 1.3	4.6 1.3	NR 1.2	NR 1.2	5.0-50 ^{oc} 1.2	14 ^{oc} 1.2	1.6 1.6	2.9 1.6	NR NR
SOIL CHEMISTRY									
Volatile [†] (ug/g)									
Benzene	*	BDL	*	BDL	BDL	7.0	*	BDL	*
Dicyclopentadiene	*	BDL	*	BDL	BDL	BDL	*	BDL	*
Methylene chloride	*	2.0	*	10	BDL	BDL	*	90	*
Semivolatiles (ug/g)									
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
Dieldrin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metals (ug/g)									
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15
Copper	6.1	BDL	1.8	1.2	1.9	3.9	1.3	7.2	13
Lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Mercury	BDL	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	36	27	54	64	36	36	47	33	38

BDL = Below detection limit

NR = Not reported

oc = Reading taken over cuttings rather than downhole

* = Volatiles not analyzed in 0-1 ft sample

** = NB alarm went off after auger removed

Table 3.1-1 (Site 1-10). Results of Phase I Field Study, Site 1-10, South Tank Farm (Continued).

		Boring 5		Boring 6		Boring 7	
Depth (feet)	Geologic Material	4-5 Sandy Clay	5-5.5 Clay	0-1 Silty Sand	3.5-4 Silty Clay	4-5 Silty Clay	0-1 Sand w/Clay
Percent Fines		60	100	40	90	90	0
AIR MONITORING							
Volatile Organic Readings (ppm)							
HNU		0.7	30-40 0.7	12-15 0.7	0.3 0.3	30oc 0.3	40-50 0.3
HNU background		0.7					1.5 0.6
OVA		2.3	60-70 2.2	NR 2.2	2.9 1.3	NR 1.3	NR NR
OVA background		2.2					5
SOIL CHEMISTRY							
Volatiles (ug/g)							
Benzene		*	BDL	BDL	*	BDL	*
Dicyclopentadiene		*	BDL	1.0	*	BDL	*
Methylene chloride		*	BDL	BDL	*	BDL	*
Semivolatiles (ug/g)							
Dicyclopentadiene		BDL	BDL	NR	BDL	BDL	BDL
Dieldrin		BDL	BDL	NR	BDL	BDL	BDL
Metals (ug/g)							
Chromium		12	1.1	1.2	1.5	1.5	3.4
Copper		13	1.5	1.3	1.1	1.7	6.7
Lead		13	1.7	BDL	1.4	BDL	BDL
Mercury		BDL	BDL	BDL	BDL	BDL	BDL
Zinc		44	81	88	48	46	36

BDL = Below detection limit

NR = Not reported

oc = Reading taken over cuttings rather than downhole

* = Volatiles not analyzed in 0-1 ft sample

Table 3.1-1 (site 1-10). Results of Phase I Field Study, Site 1-10, South Tank Farm (Continued).

Depth (feet)	Boring 8			Boring 9			Boring 10			Boring 11		
	0-1 Sand- Silt-clay	4-5 Clay	0-1 Sand	4-5 Sand	0-1 Silty Sand	4-5 Sandy Silt	0-1 Silty Sand	4-5 Sandy Silt	0-1 Silt w/Sand	0-1 Sand	0-1 Silt w/Sand	0-1 Sand
Percent Fines	30	100	0	0	40	60	60	90	90	0	0	0
AIR MONITORING												
Volatile Organic Readings (ppm)												
HNU HNU background	0.4 0.4	0.9 0.4	0.5 0.5	0.8 0.5	1.2 0.6	1.6 0.6			0.8 0.4	6.0-12 0.4		
OVA OVA background	NR NR	NR NR	0.8 0.8	NR NR	NR NR	NR NR			NR NR	NR NR		
SOIL CHEMISTRY												
Volatiles (ug/g)												
Benzene	*	BDL	*	BDL	*	*	BDL	BDL	BDL	*	*	*
Dicyclopentadiene	*	BDL	*	BDL	*	*	BDL	BDL	BDL	*	*	*
Methylene chloride	*	BDL	*	BDL	*	*	BDL	BDL	BDL	*	*	*
Semivolatiles (ug/g)												
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diehrdin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metals (ug/g)												
Chromium	8.9	BDL	9.7	BDL	12	BDL	12	BDL	10	12		
Copper	8.1	14	7.8	BDL	7.2	BDL	2.3	BDL	6.7	8.5		
Lead	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	14		
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
Zinc	38	49	31	31	45	26	60	44	50			

BDL = Below detection limit

NR = Not reported

* = Volatiles not analyzed in 0-1 ft sample

Table 3.1-1 (Site 1-10). Results of Phase I Field Study, site 1-10, South Tank Farm (Continued).

	<u>Boring 12</u>		<u>Boring 13</u>	
Depth (feet)	0-1	4-5	0-1	4-5
Geologic Material	Sand w/ Clay	Sand	Sand	Claystone
Percent Fines	10	0	0	100
AIR MONITORING				
Volatile Organic Readings (ppm)				
HRU	0.6	0.8-1.0	0.7	0.9
HRU background	0.5	0.5	0.6	0.6
OWA	NR	NR	NR	NR
OWA background	NR	NR	NR	NR
SOIL CHEMISTRY				
Volatiles (ug/g.)				
Benzene	*	BDL	*	BDL
Dicyclopentadiene	*	BDL	*	BDL
Methylnaphthalene	*	BDL	*	BDL
Semivolatiles (ug/g.)				
Dicyclopentadiene	BDL	BDL	BDL	BDL
Dieidrin	BDL	BDL	BDL	BDL
Metals (ug/g.)				
Chromium	15	BDL	BDL	BDL
Copper	8.0	7.6	50	50
Lead	13	BDL	BDL	16
Mercury	BDL	BDL	BDL	BDL
Zinc	34	29	25	110

BDL = Below detection limit

NR = Not reported

* = Volatiles not analyzed in 0-1 ft sample

Table 3.1-2 (site 1-10). Analysis of Data on Chemical Constituents Detected during Phase I Field Study, Site 1-10, South Tank Farm.

Constituent Detected	Number of Samples*	Concentration (ug/g)			Standard Deviation**	Indicator Level (ug/g)
		Range	Median**	Mean**		
<u>Volatiles</u>						
Benzene	1	7.0	-	-	-	0.3/0.3***
Dicyclopentadiene	4	1.0-200	-	-	-	0.7/0.3***
Methylene chloride	3	2.0-90	-	-	-	0.7/0.0***
<u>Semivolatiles</u>						
Dicyclopentadiene	2	0.7-100	-	-	-	1.0/0.4***
Dieldrin	2	2.0-20	-	-	-	0.3/0.3***
<u>Metals</u>						
Chromium	17	8.4-15	12	12.2	2.5	25-40
Copper	27	6.1-50	11	12.8	8.7	20-35
Lead	10	11-18	14	14.7	2.2	25-40
Mercury	1	0.2	-	-	-	0.05-0.1
Zinc	30	25-110	45	48.8	20.3	60-80

* - Number of samples in which constituent was detected
 ** - Median, mean, and standard deviation not calculated when constituent detected in fewer than 5 samples
 *** - The two values given are the detection limits for UMTL and CAL laboratories, respectively

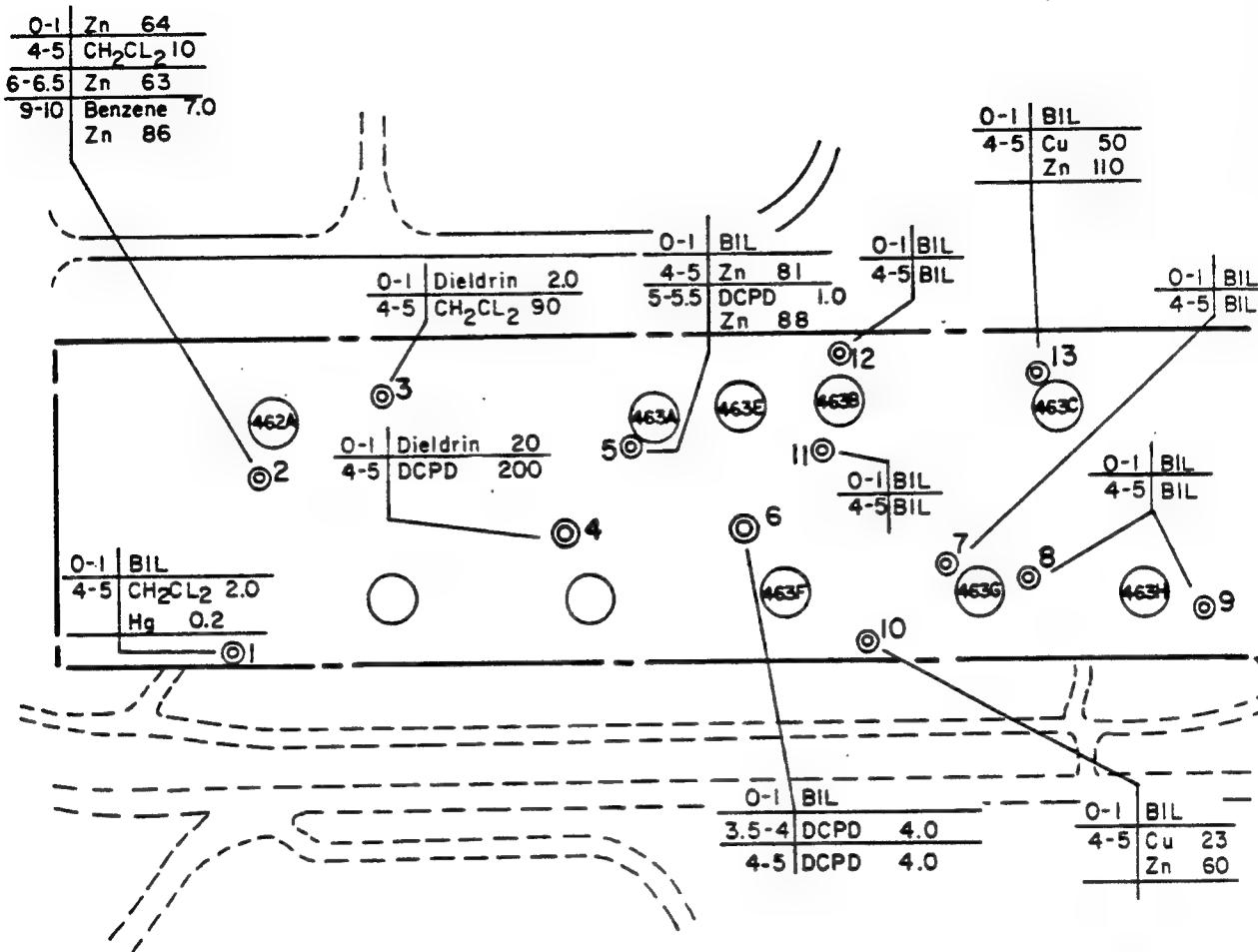
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The organic compounds benzene, dicyclopentadiene (DCPD), dieldrin, and methylene chloride were detected in soil samples from Site 1-10. The single occurrence of benzene was recorded in the 9-10 ft sample from Boring 2, which was the only boring drilled deeper than 5.5 ft and was the only sample obtained below the water table. Methylene chloride was reported in the 4-5 ft interval of Borings 1, 2, and 3 (all located in the western portion of the site). Concentrations ranged from 2.0 to 90 micrograms per gram (ug/g).

Dicyclopentadiene (DCPD) was detected in Boring 4 by both the volatile and semivolatile organic compound analytical methods. DCPD was detected by the volatiles method in Borings 4, 5, and 6 at the 4-5 ft level; at the 3.5-4 ft interval of Boring 6; and at the 5-5.5 ft interval in Boring 5. Dieldrin was detected in the 0-1 ft interval from Borings 3 and 4. The concentrations measured range from 2.0 to 20 ug/g.

Metals detected within or above their respective indicator ranges in samples from Site 1-10 were copper, chromium, lead, mercury, and zinc. The amounts detected appear to be fairly uniformly distributed both laterally and vertically throughout the site. Mercury at 0.2 parts per million (ppm) was detected in one sample (the 4-5 ft interval of Boring 1). Copper and zinc within or above their indicator ranges were detected in samples from Borings 2, 5, 10, and 13. The distribution of the constituents within or above their indicator ranges detected at Site 1-10 in the Phase I program is presented in Figure 3.1-1.

In addition, several compounds were detected by GC/MS that were not included in the target compound list and that were not conclusively identified. Table 3.1-3 lists the boring number, sample interval, relative retention time (shown as "unknown number" on the the table), concentration, best-fit identification, and comments for these nontarget compounds detected at Site 1-10. It should be noted that an individual compound may have more than one retention time, and also that a particular retention time may be assigned to more than one compound. Therefore, Table 3.1-3 provides only a general indication of



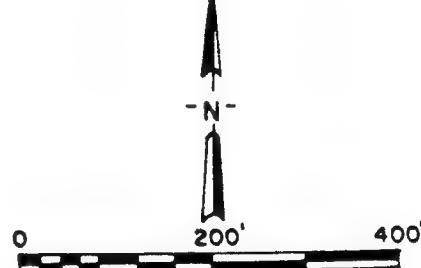
Legend

◎ Phase I borings

Analyte

Sampling — 0-1 | Cr 15 — Level (ug/g)
Interval (feet)

CH₂Cl₂ — Methylene Chloride
DCPD — Dicyclopentadiene



Prepared for:

Program Manager's Office for
Rocky Mountain Arsenal Cleanup
Aberdeen Proving Ground, Maryland

FIGURE 3.1-I
Analytes Detected Above Indicator
Level at Site 1-10

Rocky Mountain Arsenal, Task 2
Prepared by: Ebasco Services Incorporated

Table 3.1-3 (Site 1-10). Tentative Identification of Nontarget Compounds in Site 1-10, South Tank Farm.

Borehole Number	Interval Depth (ft)	Unknown Number	Concentration (ppm)*	Sample Number	Lot	Best-fit Identification	Comments
1	0-1			003	AAN		K
	4-5	094	0.8	007	AA0	2-pentanone	possibly associated w/gasoline
		127	0.6	007	AA0	a dimethyl cyclohexane	possibly associated w/gasoline
		134	2.2	007	AA0	ethylcyclohexane	possibly associated w/gasoline
		140	0.6	007	AA0	octane	A, possibly associated w/gasoline
		160	1.8	007	AA0	a trimethyl 2-pentene	possibly associated w/gasoline
		136	0.8	004	AAN		K
2	0-1			007	AAN		K
	4-5			009	AA0		K
				008	AAN		K
				002	AB0	ethylcyclohexane	
6-6.5	133	1.8		002	AB0	C-9 alkane	
	159	1.6		002	AB0		
				001	ABS		
9-10				010	AA0		K
				009	AAN		K
3	0-1			005	AAN		K
	4-5			008	AA0		K
				006	AAN		K
				002	ABS	3A,4,7,7A-tetrahydro-4,7-methano-1H-indene	A
4	0-1	545	0.3	002	ABS	hexadecanoic acid	D
				579	0.6		A, unknown with 6 chlorines
				609	0.3	002	D
				629	0.2	002	D
				634	0.2	002	A, unknown with 6 chlorines
				640	0.8	002	A, unknown with 6 chlorines
				641	0.3	002	A, unknown with 6 chlorines
				643	0.5	002	A
				614	0.2	002	
						ABS	

A - No positive identification

D - Derived from natural products

GT - Greater than

K - None detected

* - Values reported are blank corrected

Table 3.1-3 (Site 1-10). Tentative Identification of Nontarget Compounds in Site 1-10, South Tank Farm (Continued).

Borehole Number	Interval Depth (ft)	Unknown Number	Concentration (ppm)*	Sample Number	Lot	Best-fit Identification	Comments
4	4-5	146	3.0	003	ABO	C₃H₅-benzene	A
		539	12	003	ABS	3A ₄ ,7,7A-tetrahydro-4,7-methano-1H-indene	
	54.3	54.3	4.0	003	ABS		A, related to UNK #543
		563	30	003	ABS		A, spectrum related to UNK #543
	564	15	003	ABS			
		566	50	003	ABS	isomer of UNK #564	
	569	7.0	003	ABS			
		573	7.0	003	ABS		
	578	4.0	003	ABS			
		581	9.0	003	ABS	isomer of UNK #581	
5	0-1	582	30	003	ABS		A
		583	6.1	003	ABS		
		584	10	003	ABS	isomer of UNK #583	
		585	12	003	ABS		A
		586	4.0	003	ABS		A
		587	6.0	003	ABS		A
				004	ABS		
		133	1.4	004	ABO	ethylcyclohexane	
		160	1.1	004	ABO	C-9 alkane	K
				005	ABS		
6	0-1	160	1.3	005	ABO	C-9 alkane	K
				006	ABS		
		160	1.1	007	ABZ	C-9 alkane	K
				009	ABS		
7	0-1	160	1.5	006	ABO	C-9 alkane	K
				008	ABS		
		634	0.5	004	ABZ	C-17 alcohol	D

A - No positive identification

D - Derived from natural products

K - None detected

* - Values reported are blank corrected

Table 3.1-3 (Site 1-10). Tentative Identification of Nontarget Compounds in Site 1-10, South Tank Farm (Continued).

Borehole Number	Interval Depth (ft)	Unknown Number	Concentration (ppm)*	Sample Number	Lot	Best-fit Identification	Comments
7	4-5			003 005	ABR ABZ		K K
8	0-1			008	ABZ		K
	4-5			005 009	ABR ABZ		K K
9	0-1			010	ABZ		K
	4-5	125	3.0	006 011	ABR ABZ	2,2,4-trimethylpentane	K
10	0-1	610 619	0.5 0.6	006 006	ABZ ABZ	hexadecanoic acid C-16 alkene	D
	4-5			004 007	ABR ABZ		K K
11	0-1			010	ABS		K
	4-5	133 160 635	1.7 1.4 0.2	008 008 011	ABO ABO ABS	ethylcyclohexane C-9 alkane alcohol, GT C-17	D
12	0-1	531 535	1.4 1.0	002 002	ABZ ABZ	1,1,2,2-tetrachloroethane a trichloro 1-propene	
	4-5			002 003	ABR ABZ		K K
13	0-1	529 609 636	0.2 0.2 0.3	012 012 012	ABZ ABZ ABZ	hexadecanoic acid C-18 aldehyde	A D
	4-5			007 013	ABR ABZ		K K

A - No positive identification

D - Derived from natural products

GT - Greater than

K - None detected
* - Values reported are blank corrected

additional compounds that may be present. None of the nontarget compounds detected were of sufficient significance to affect Phase II planning.

3.1.2.4 Phase I Contamination Assessment

Phase I samples from Site 1-10 had detectable levels of benzene, dicyclopentadiene, methylene chloride, dieldrin, chromium, copper, lead, mercury, and zinc. None of the other target analytes were above detection limits.

Benzene was detected in the single soil sample from the water table (in Boring 2) at Site 1-10. This may be a reflection of the benzene found in the groundwater underlying the site. Although there was a benzene spill reported in the south tank farm area, there was no indication of this compound in the near-surface soils. Detected DCPD concentrations were clustered in the vicinity of Borings 4, 5, and 6. Historical data indicate that tanks in this vicinity (Tanks 463A and 463F) were used to store alcohol; Tank 463F was also used to store BCH, but not DCPD. Tanks 462A, 463C, and 463G were used to store DCPD at some time in their recorded usage. No correlation is apparent between the distribution of DCPD concentrations detected during Phase I and the locations of these tanks. The distribution of methylene chloride was limited to the western portion of the site. The two locations at which dieldrin was detected (Borings 3 and 4) were adjacent to each other in the western portion of the site. Dieldrin was detected in the surface samples (0-1 ft interval) from these borings.

The distribution of metals detected across the site also showed no discernible pattern. Nearly all of the concentrations appear to be below their respective indicator levels and within a normal range for western soils (ESE, 1986). The single concentration of copper that exceeded the indicator range for copper was associated with claystone at the 4-5 ft interval of Boring 13, and is probably naturally occurring. The only detected concentration of mercury (4-5 ft interval of Boring 1) was above the indicator range for mercury. Four samples had detected zinc concentrations that were somewhat above the indicator range for this metal: 9-10 ft at Boring 2; 4-5 ft and 5-5.5 ft at

Boring 5; and 4-5 ft at Boring 13. In each case, these zinc concentrations were associated with clay or claystone, and it is likely that the concentrations represent natural conditions.

3.1.3 Phase II Contamination Survey

Based on the results from the Phase I boring program, modifications have been made to the proposed Phase II program to further delineate the extent and level of selected constituents detected in Phase I. A total of five borings are now proposed, as are ten hand-augered sampling points.

The objectives of the Phase II program are to determine:

- o The vertical and horizontal extent of methylene chloride in the vicinity of Borings 1, 2, and 3;
- o The horizontal extent of dieldrin in the vicinity of Borings 3 and 4;
- o The vertical and horizontal extent of mercury in the vicinity of Boring 1;
- o Whether organochlorine pesticides and methyl isobutyl ketone are present in the northeastern corner of the site (these substances were found in the western portion of the adjacent Site 1-8); and
- o Whether the benzene concentrations detected in soils near or in the saturated zone at this site are the result of groundwater contamination.

To satisfy the first four objectives listed above, a boring program will be undertaken during Phase II, and hand-augered samples will also be taken. The hand-augered samples will be taken from areas immediately adjacent to tanks, where access with a drill rig is difficult. The ten hand-augered samples will be taken 2 to 3 ft below the surface inside the tank dike and on the downgradient side of each tank or former tank location in Site 1-10. The purpose of taking these samples is to identify constituents in the surface

soils immediately adjacent to the tanks to determine whether the tanks may have leaked in the past. The revised Phase II program will be drilled and sampled as shown in Figure 3.1-2.

Based on the Phase I boring results, a Phase II soil gas program is also proposed for Site 1-10 and surrounding areas. The purpose of the soil gas program will be to aid in determining the source and extent of the benzene contamination. It is possible that benzene concentrations detected in soils near or in the saturated zone at this site are the result of groundwater contamination. The soil gas program will cover an area larger than Site 1-10; it will also encompass portions of Sites 1-9, 2-13, and 2-2 (see Figure 3.1-3). The areal extent of a probable benzene groundwater plume underlying the site cannot be determined using the Phase I data, as only one Phase I boring was to or below the water table. Therefore, a real-time soil gas program is proposed to trace and define the limits of the benzene plume. The mobile Tracer Research technique is well suited to this task; approximately one day would be required to define the plume.

The number of borings and samples to be taken at specific depths during Phase II are tabulated below.

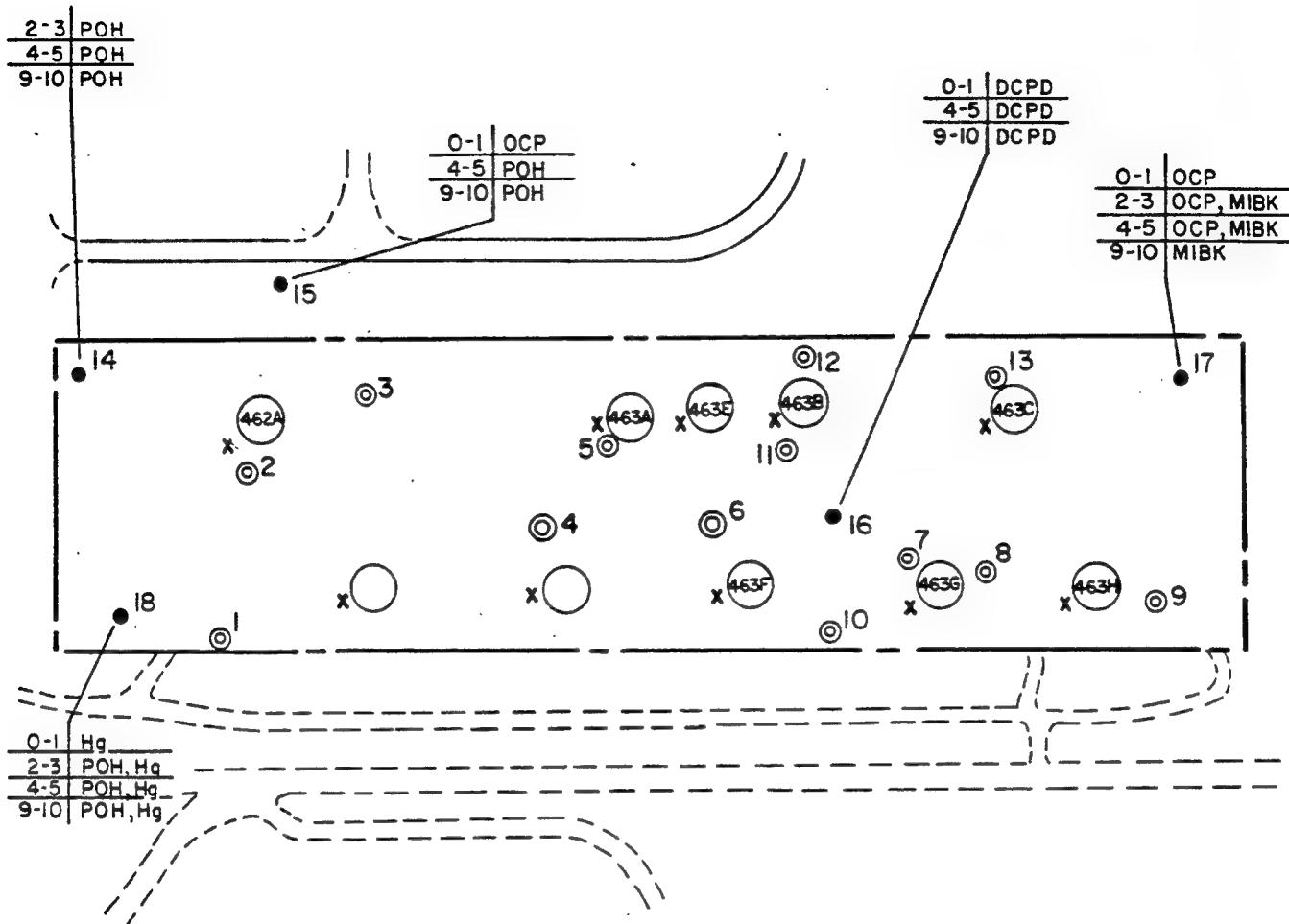
<u>No. of Borings</u>	<u>Depth (ft)</u>	<u>No. of Samples</u>
5	10	17
10 (hand-auger)	3	10

The number of samples planned for each analytical method is as follows:

<u>Analytical Method</u>	<u>No. of Samples</u>
Organochlorine pesticides (OCP)	4
DCPD (volatile method)	3
Purgeable organohalogen (POH)	8
Mercury (Hg)	4
Methyl isobutyl ketone (MIBK)	3
Phase I Analytes (GC/MS)	10

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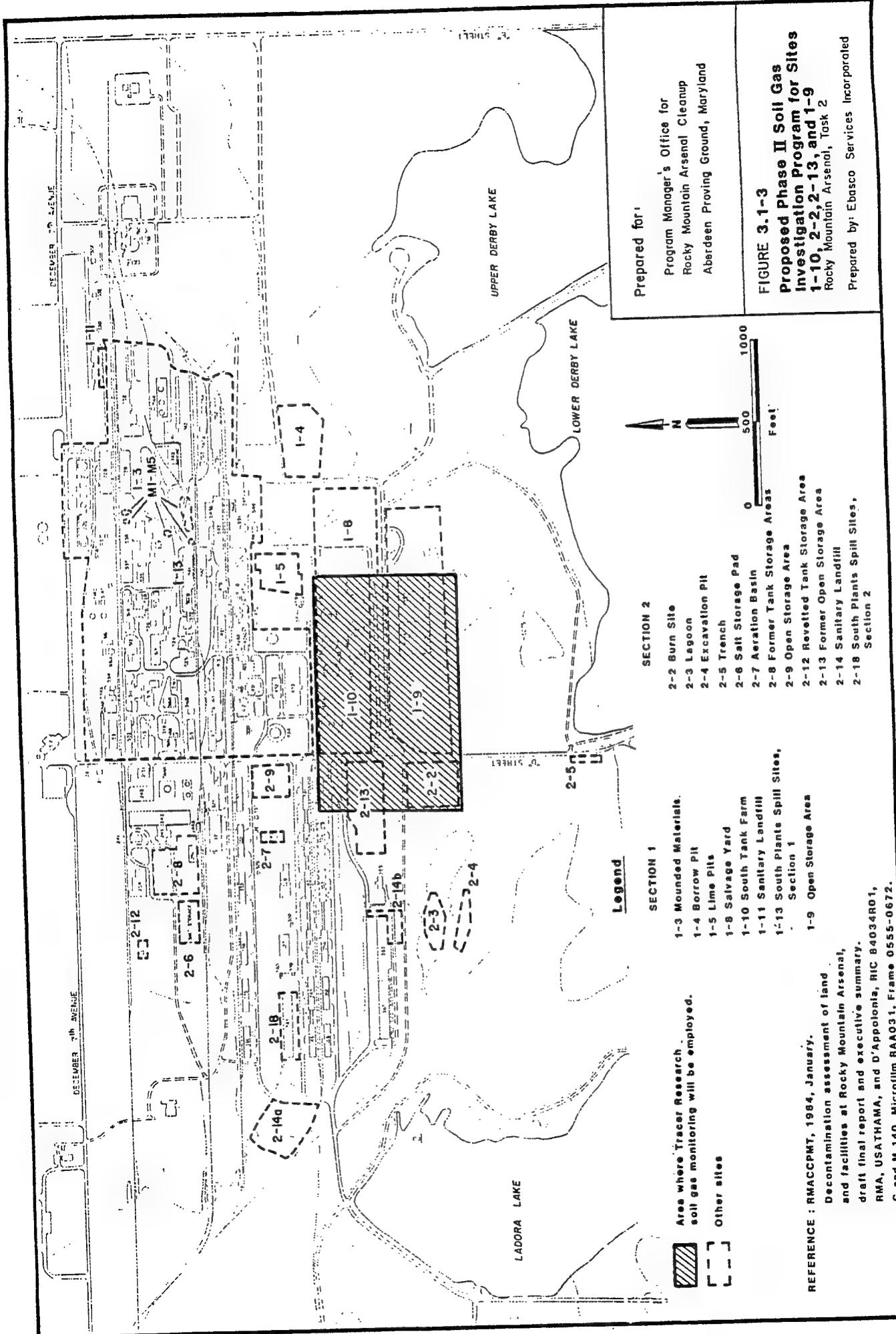


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Aberdeen Proving Ground, Maryland

FIGURE 3.1-2
Proposed Phase II Borings and
Sampling Plan at Site 1-10

Rocky Mountain Arsenal, Task 2
Prepared by: Ebasco Services Incorporated



Based on the results of the Phase I drilling program, the following is a revised estimate of the extent of soil contamination:

Estimated Areal Extent = 317,312 ft²,

Estimated Vertical Extent = 7.5 ft, and

Revised Estimated Volume = 88,142 yd³.

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Appendix A

Phase I Analytical Parameters

APPENDIX A
Phase I Analytical Parameters

Samples collected in the Phase I boring program were analyzed for a pre-established set of constituents. This Appendix summarizes these analytes. Samples collected from the 0-1 ft interval were analyzed for the analytes listed below, excluding volatile organics. The samples from all intervals deeper than 0-1 ft (unless otherwise specified) were analyzed for all of the analytes listed below.

<u>Analytes</u>	<u>Synonymous Names Used in Appendix B</u>
Volatile Organics	
Chloroform	Chloroform
1,1-Dichloroethane	1,1-Dichloroethane
Methylene Chloride	Methylene Chloride
1,2-Dichloroethane	1,2-Dichloroethane
1,1,1-Trichloroethane	1,1,1-Trichloroethane
1,1,2-Trichloroethane	1,1,2-Trichloroethane
Carbon Tetrachloride	Carbon Tetrachloride
Tetrachloroethylene	Tetrachloroethylene
Trichloroethylene	Trichloroethylene
Trans-1,2-Dichloroethylene	Trans-1,2-Dichloroethylene
Benzene	Benzene
Toluene	Toluene
Ethylbenzene	Ethylbenzene
Chlorobenzene	Chlorobenzene
Methyl isobutyl ketone (MIBK)	Methylisobutyl Ketone
Dimethyldisulfide	Dimethyldisulfide
Bicycloheptadiene	Bicycloheptadiene
Dicyclopentadiene (DCPD)	Dicyclopentadiene
Dibromochloropropane (DBCP)	Dibromochloropropane
m-Xylene	m-Xylene
o- and/or p-Xylene	Ortho- & Para-Xylene

APPENDIX A
Phase I Analytical Parameters (continued)

Semivolatile Organics	
Aldrin	Aldrin
Endrin	Endrin
Dieldrin	Dieldrin
Isodrin	Isodrin
p,p'-DDT	Dichlorodiphenyltrichloro- ethane
p,p'-DDE	Dichlorodiphenylethane
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene
1,4-Oxathiane	1,4-Oxathiane
Dithiane	Dithiane
Malathion	Malathion
Parathion	Parathion
Chlordane	Chlordane
Supona	2-Chloro-1(2,4-Dichlorophenyl) Vinyl diethyl Phosphates
Diisopropylmethyl Phosphonate (DIMP)	Diisopropylmethyl Phosphonate
Dimethylmethyl Phosphonate (DMMP)	Dimethylmethyl Phosphate
Atrazine	Atrazine
Dicyclopentadiene (DCPD)	Dicyclopentadiene
Vapona	Vapona
Chlorophenylmethyl Sulfide	p-Chlorophenylmethyl Sulfide
Chlorophenylmethyl Sulfoxide	p-Chlorophenylmethyl Sulfoxide
Chlorophenylmethyl Sulfone	p-Chlorophenylmethyl Sulfone
Dibromochloropropane (DBCP)	Dibromochloropropane
ICP Metals Screen	
Chromium	Chromium
Zinc	Zinc
Cadmium	Cadmium
Copper	Copper
Lead	Lead
Separate Analyses	
Arsenic	Arsenic
Mercury	Mercury
Dibromochloropropane (DBCP)	Dibromochloropropane

Appendix B

Summary of Analytical Results

Ebasco Services Incorporated

Rocky Mountain Arsenal Program

Summary of Analytical Results

Task 2, Site 1-10

South Tank Farm

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Parameter	Value			
0001	0-1	Soil	Aldrin	LT 3. -01	ug/g	AA003	
			Arsenic	LT 5.0 +00	ug/g	AAV009	
			Atrezine	LT 3. -01	ug/g	AA003	
			Cadmium	LT 7.4 -01	ug/g	ABD011	
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	AA003	
			Chlordane	LT 6. -01	ug/g	AA003	
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	AA003	
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	AA003	
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	AA003	
			Chromium	LT 6.5 +00	ug/g	ABD011	
			Copper	6.1 +00	ug/g	ABD011	
			Dibromochloropropane	LT 3. -01	ug/g	AA003	
			Dicyclopentadiene	LT 4. -01	ug/g	AA003	
			Vapona	LT 3. -01	ug/g	AA003	
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AA003	
			Dithiane	LT 7. +00	ug/g	AA003	
			Dieルドin	LT 3. -01	ug/g	AA003	
			Endrin	LT 3. -01	ug/g	AA003	
			Mercury	LT 5.0 -02	ug/g	AAI014	
			Isodrin	LT 3. -01	ug/g	AA003	
			Malathion	LT 3. -01	ug/g	AA003	

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated

Rocky Mountain Arsenal Program

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Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0001	0-1	Soil	1,4-Oxathiane	LT 6. +00	ug/g	AAN003
			Lead	LT 8.4 +00	ug/g	ABD011
			Dichlorodiphenylethane	LT 3. -01	ug/g	AAN003
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	AAN003
			Parathion	LT 4. -01	ug/g	AAN003
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	AAN003
			Zinc	3.4 +01	ug/g	ABD011
0001	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AA0007
			1,1,2-Trichloroethane	LT 3. -01	ug/g	AA0007
			1,1-Dichloroethane	LT 9. -01	ug/g	AA0007
			1,2-Dichloroethane	LT 3. -01	ug/g	AA0007
			m-Xylene	LT 7. -01	ug/g	AA0007
			Aldrin	LT 3. -01	ug/g	AAN004
			Arsenic	LT 5.0 +00	ug/g	AAV010
			Atrazine	LT 3. -01	ug/g	AAN004
			Bicycloheptadiene	LT 3. -01	ug/g	AA0007
			Carbon Tetrachloride	LT 3. -01	ug/g	AA0007
			Cadmium	LT 7.4 -01	ug/g	ABD012
			Methylene Chloride	2. +00	ug/g	AA0007

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0001	4-5	Soil	Chloroform	LT 3. -01	ug/g	AA0007
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	AAN004
			Chlorobenzene	LT 3. -01	ug/g	AA0007
			Chlordane	LT 6. -01	ug/g	AAN004
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	AAN004
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	AAN004
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	AAN004
			Chromium	LT 6.5 +00	ug/g	ABD012
			Copper	LT 4.7 +00	ug/g	ABD012
			Dibromochloropropane	LT 3. -01	ug/g	AAN004
			Dibromochloropropane	LT 4. -01	ug/g	AA0007
			Dicyclopentadiene	LT -01	ug/g	AAN004
			Dicyclopentadiene	LT 3. -01	ug/g	AA0007
			Vapona	LT 3. -01	ug/g	AAN004
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AAN004
			Dithiane	LT 7. +00	ug/g	AAN004
			Dieldrin	LT 3. -01	ug/g	AAN004
			Dimethyl disulfide	LT 3. -01	ug/g	AA0007
			Endrin	LT 3. -01	ug/g	AAN004
			Ethylbenzene	LT 3. -01	ug/g	AA0007
			Mercury	2.0 -01	ug/g	AA1015

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
Summary of Analytical Results

Rocky Mountain Arsenal Program
Task 2 , Site 1-10 South Tank Farm

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Conc.	Method			
0001	4-5	Soil	Isodrin		LT 3. -01	ug/g	AAN004
			Toluene		LT 3. -01	ug/g	AA0007
			Methylisobutyl Ketone		LT 3. -01	ug/g	AA0007
			Malathion		LT 3. -01	ug/g	AAN004
			1,4-Oxathiane		LT 6. +00	ug/g	AAN004
			Lead		LT 8.4 +00	ug/g	ABD012
			Dichlorodiphenylethane		LT 3. -01	ug/g	AAN004
			Dichlorodiphenyltrichloro- ethane		LT 6. -01	ug/g	AAN004
			Parathion		LT 4. -01	ug/g	AAN004
			2-Chloro-1-(2,4-Dichlorophenyl) Vinylidethyl Phosphates		LT 3. -01	ug/g	AAN004
			Trans-1,2-Dichloroethene		LT 3. -01	ug/g	AA0007
			Tetrachloroethene		LT 3. -01	ug/g	AA0007
0002	0-1	Soil	Trichloroethene		LT 3. -01	ug/g	AA0007
			Ortho- & Para-Xylene		LT 3. -01	ug/g	AA0007
			Zinc		2.7 +01	ug/g	ABD012
			Aldrin		LT 3. -01	ug/g	AAN007
			Arsenic		LT 5.0 +00	ug/g	AAV013
			Atrazine		LT 3. -01	ug/g	AAN007
			Cadmium		LT 7.4 -01	ug/g	ABD015
			Hexachlorocyclopentadiene		LT 3. -01	ug/g	AAN007

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	0-1	Soil	Chlordane p-Chlorophenylmethyl Sulfide	LT 6. -01 LT 4. +00	ug/g ug/g	AAN007 AAN007
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	AAN007
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	AAN007
			Chromium	LT 6.5 +00	ug/g	ABD015
			Copper	1.8 +01	ug/g	ABD015
			Dibromochloropropane	LT 3. -01	ug/g	AAN007
			Dibromochloropropane	LT 5.0 -03	ug/g	ALS007
			Dicyclopentadiene	LT 4. -01	ug/g	AAN007
			Vapone	LT 3. -01	ug/g	AAN007
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AAN007
			Dithiane	LT 7. +00	ug/g	AAN007
			Dieルドin	LT 3. -01	ug/g	AAN007
			Endrin	LT 3. -01	ug/g	AAN007
			Mercury	LT 5.0 -02	ug/g	AAI018
			Isodrin	LT 3. -01	ug/g	AAN007
			Malathion	LT 3. -01	ug/g	AAN007
			1,4-Oxethiane	LT 6. +00	ug/g	AAN007
			Lead	LT 8.4 +00	ug/g	ABD015
			Dichlorodiphenylmethane	LT 3. -01	ug/g	AAN007
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	AAN007

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	0-1	Soil	Parathion	LT 4. -01	ug/g	AAN007
			2-Chloro-1(2,4-Dichlorophenyl) Vinyldiethyl Phosphates	LT 3. -01	ug/g	AAN007
			Zinc	6.4 +01	ug/g	ABD015
0002	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AA0009
			1,1,2-Trichloroethane	LT 3. -01	ug/g	AA0009
			1,1-Dichloroethane	LT 9. -01	ug/g	AA0009
			1,2-Dichloroethane	LT 3. -01	ug/g	AA0009
			m-Xylene	LT 7. -01	ug/g	AA0009
			Aldrin	LT 3. -01	ug/g	AAN008
			Arsenic	LT 5.0 +00	ug/g	AAV014
			Atrazine	LT 3. -01	ug/g	AAN008
			Bicycloheptadiene	LT 3. -01	ug/g	AA0009
			Benzene	LT 3. -01	ug/g	AA0009
			Carbon Tetrachloride	LT 3. -01	ug/g	AA0009
			Cadmium	LT 7.4 -01	ug/g	ABD016
			Methylene Chloride	1. +01	ug/g	AA0009
			Chloroform	LT 3. -01	ug/g	AA0009
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	AAN008
			Chlorobenzene	LT 3. -01	ug/g	AA0009
			Chlordane	LT 6. -01	ug/g	AAN008

Note: Results for dibromochloropropane (DRCP) may appear in up to two analytical fractions.
 Results for bicyclopentadiene (UCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	4-5	Soil	p-Chlorophenylmethyl Sulfide p-Chlorophenylmethyl Sulfoxide	LT 4. +00	ug/g	AAN008
			p-Chlorophenylmethyl Sulfone	LT 7. +00	ug/g	AAN008
			Chromium	LT 6. -01	ug/g	AAN008
			Copper	1.5 +01	ug/g	ABD016
			Dibromochloropropane	LT 3. -01	ug/g	AAN008
			Dibromochloropropane	LT 4. -01	ug/g	AA0009
			Dicyclopentadiene	LT 4. -01	ug/g	AAN008
			Dicyclopentadiene	LT 3. -01	ug/g	AA0009
			Vapone	LT 3. -01	ug/g	AAN008
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AAN008
			Dithiane	LT 7. +00	ug/g	AAN008
			Dieldrin	LT 3. -01	ug/g	AAN008
			Dimethyldisulfide	LT 3. -01	ug/g	AA0009
			Endrin	LT 3. -01	ug/g	AAN008
			Ethylbenzene	LT 3. -01	ug/g	AA0009
			Mercury	LT 5.0 -02	ug/g	AA1019
			Isodrin	LT 3. -01	ug/g	AAN008
			Toluene	LT 3. -01	ug/g	AA0009
			Methylisobutyl Ketone	LT 3. -01	ug/g	AA0009
			Malathion	LT 3. -01	ug/g	AAN008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10 South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	4-5	Soil	1,4-Oxathiane	LT 6. +00	ug/g	AAN008
		Lead		LT 8.4 +00	ug/g	ABD016
		Dichlorodiphenylethane		LT 3. -01	ug/g	AAN008
		Dichlorodiphenyltrichloroethane		LT 6. -01	ug/g	AAN008
		Parathion		LT 4. -01	ug/g	AAN008
		2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates		LT 3. -01	ug/g	AAN008
		Trans-1,2-Dichloroethene		LT 3. -01	ug/g	AA0009
		Tetrachloroethene		LT 3. -01	ug/g	AA0009
		Trichloroethene		LT 3. -01	ug/g	AA0009
		Ortho- & Para-Xylene		LT 3. -01	ug/g	AA0009
		Zinc		5.4 +01	ug/g	ABD016
0002	6-6.5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AB0002
		1,1,2-Trichloroethane		LT 3. -01	ug/g	AB0002
		1,1-Dichloroethane		LT 9. -01	ug/g	AB0002
		1,2-Dichloroethane		LT 3. -01	ug/g	AB0002
		m-Xylene		LT 7. -01	ug/g	AB0002
		Aldrin		LT 3. -01	ug/g	AB5001
		Arsenic		LT 5.0 +00	ug/g	ABK005
		Atrazine		LT 3. -01	ug/g	AB5001
		Bicycloheptadiene		LT 3. -01	ug/g	AB0002

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
0002	6-6.5	Soil	Benzene	LT	3. -01	ug/g	AB0002
			Carbon Tetrachloride	LT	3. -01	ug/g	AB0002
			Cadmium	LT	7.4 -01	ug/g	AB6005
			Methylene Chloride	LT	7. -01	ug/g	AB0002
			Chloroform	LT	3. -01	ug/g	AB0002
			Hexachlorocyclopentadiene	LT	3. -01	ug/g	ABS001
			Chlorobenzene	LT	3. -01	ug/g	AB0002
			Chlordane	LT	6. -01	ug/g	ABS001
			p-Chlorophenylmethyl Sulfide	LT	4. +01	ug/g	ABS001
			p-Chlorophenylmethyl Sulfoxide	LT	7. +00	ug/g	ABS001
			p-Chlorophenylmethyl Sulfone	LT	6. -01	ug/g	ABS001
			Chromium	LT	6.5 +00	ug/g	AB6005
			Copper	LT	1.9 +01	ug/g	AB6005
			Dibromochloropropane	LT	3. -01	ug/g	AB0002
			Dicyclopentadiene	LT	3. -01	ug/g	AB0002
			Dicyclopentadiene	LT	4. -01	ug/g	ABS001
			Vapors	LT	3. -01	ug/g	ABS001
			Diisopropylmethyl Phosphonate	LT	3. -01	ug/g	AB5001
			Dithiane	LT	7. +00	ug/g	AB5001
			Diieldrin	LT	3. -01	ug/g	AB5001

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions. Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	6-6.5	Soil	Dimethyldisulfide Endrin	LT 8. -01	ug/g	AB0002
			Ethylbenzene	LT 3. -01	ug/g	AB5001
			Mercury	LT 3. -01	ug/g	AB0002
			Isodrin	LT 5.0 -02	ug/g	ABJ005
			Toluene	LT 3. -01	ug/g	AB5001
			Methylisobutyl Ketone	LT 3. -01	ug/g	AB0002
			Malathion	LT 3. -01	ug/g	AB5001
			1,4-Oxathiane	LT 6. +00	ug/g	AB5001
			Lead	LT 8.4 +00	ug/g	ABG005
			Dichlorodiphenylmethane	LT 3. -01	ug/g	AB5001
			Dichlorodiphenyltrichloro- ethane	LT 6. -01	ug/g	AB5001
			Parathion	LT 4. -01	ug/g	AB5001
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	AB5001
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0002
			Tetrachloroethene	LT 3. -01	ug/g	AB0002
			Trichloroethene	LT 3. -01	ug/g	AB0002
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0002
			Zinc	6.3 +01	ug/g	ABG005
0002	9-10	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AA0010

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results: Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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 Summary of Analytical Results

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	9-10	Soil	1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dichloroethane m-Xylene Aldrin Arsenic Atrazine Bicycloheptadiene Benzene Carbon Tetrachloride Cadmium Methylene Chloride Chloroform Hexachlorocyclopentadiene Chlorobenzene Chlordane p-Chlorophenylmethyl Sulfide p-Chlorophenylmethyl Sulfone Chromium Copper	LT 3. -01 LT 9. -01 LT 3. -01 LT 7. -01 LT 3. -01 LT 5.0 +00 LT 3. -01 LT 3. -01 LT 7. +00 LT 3. -01 LT 7. -01 LT 7.4 -01 LT 7. -01 LT 3. -01 LT 3. -01 LT 4. +00 LT 7. +00 LT 6. -01 LT 6.5 +00 8.9 +00	ug/g ug/g	AA0010 AA0010 AA0010 AA0010 AA0009 AAV015 AA0009 AA0009 AA0010 ABD017 AA0010 AA0010 AA0009 AA0010 AA0009 AA0009 AA0009 ABD017

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results: Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0002	9-10	Soil	Dibromochloropropane	LT 3. -01	ug/g	AAN009
			Dibromochloropropane	LT 4. -01	ug/g	AA0010
			Dicyclopentadiene	LT 4. -01	ug/g	AAN009
			Dicyclopentadiene	LT 3. -01	ug/g	AA0010
			Vapona	LT 3. -01	ug/g	AAN009
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AAN009
			Dithiane	LT 7. +00	ug/g	AAN009
			Diehrin	LT 3. -01	ug/g	AAN009
			Dimethyldisulfide	LT 3. -01	ug/g	AA0010
			Endrin	LT 3. -01	ug/g	AAN009
			Ethylbenzene	LT 3. -01	ug/g	AA0010
			Mercury	LT 5.0 -02	ug/g	AA1020
			Isodrin	LT 3. -01	ug/g	AAN009
			Toluene	LT 3. -01	ug/g	AA0010
			Methylisobutyl Ketone	LT 3. -01	ug/g	AA0010
			Malathion	LT 3. -01	ug/g	AAN009
			1,4-Oxathiane	LT 6. +00	ug/g	AAN009
			Lead	LT 8.4 +00	ug/g	ABD017
			Dichlorodiphenylethane	LT 3. -01	ug/g	AAN009
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	AAN009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10 South Ranch Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Parathion	2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates			
0002	9-10	Soil			LT 4. -01	ug/g	AAN009
					LT 3. -01	ug/g	AAN009
					LT 3. -01	ug/g	AA0010
					LT 3. -01	ug/g	AA0010
					LT 3. -01	ug/g	AA0010
					LT 3. -01	ug/g	AA0010
					LT 3. -01	ug/g	AA0010
					8.6 +01	ug/g	ABD017
0003	0-1	Soil	Aldrin		LT 3. -01	ug/g	AAN005
					LT 5.0 +00	ug/g	AAV011
					LT 3. -01	ug/g	AAN005
					LT 7.4 -01	ug/g	ABD013
					LT 3. -01	ug/g	AAN005
					LT 6. -01	ug/g	AAN005
					LT 4. +00	ug/g	AAN005
					LT 7. +00	ug/g	AAN005
					LT 6. -01	ug/g	AAN005
					1.3 +01	ug/g	ABD013
					1.3 +01	ug/g	ABD013
					LT 3. -01	ug/g	AAN005
					LT 4. -01	ug/g	AAN005

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dibromochloropropane (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0003	0-1	Soil	Vapona Diisopropylmethyl Phosphonate	LT 3. -01 LT 3. -01	ug/g ug/g	AAND05 AAND05
			Dithiane	LT 7. +00	ug/g	AAND05
			Diieldrin	2. +00	ug/g	AAND05
			Endrin	LT 3. -01	ug/g	AAND05
			Mercury	LT 5.0 -02	ug/g	AAI016
			Isodrin	LT 3. -01	ug/g	AAND05
			Malathion	LT 3. -01	ug/g	AAND05
			1,4-Oxathiane	LT 6. +00	ug/g	AAND05
			Lead	1.8 +01	ug/g	ABD013
			Dichlorodiphenylmethane	LT 3. -01	ug/g	AAND05
			Dichlorodiphenyltrichloro- ethane	LT 6. -01	ug/g	AAND05
			Parathion	LT 4. -01	ug/g	AAND05
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	AAND05
			Zinc	4.7 +01	ug/g	ABD013
0003	4-5	Soil	1,1,1-Trichloroethane 1,1,2-Trichloroethane	LT 3. -01 LT 3. -01	ug/g ug/g	AA0008 AA0008
			1,1-Dichloroethane	LT 9. -01	ug/g	AA0008
			1,2-Dichloroethane	LT 3. -01	ug/g	AA0008
			m-Xylene	LT 7. -01	ug/g	AA0008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Aldrin	Arsenic			
0003	4 -5	Soil	Aldrin		LT 3. -01	ug/g	AAND06
			Arsenic		LT 5.0 +00	ug/g	AAV012
			Atrazine		LT 3. -01	ug/g	AAND06
			Bicycloheptadiene		LT 3. -01	ug/g	AA0008
			Benzene		LT 3. -01	ug/g	AA0008
			Carbon Tetrachloride		LT 3. -01	ug/g	AA0008
			Cadmium		LT 7.4 -01	ug/g	ABD014
			Methylene Chloride		9. +01	ug/g	AA0008
			Chloroform		LT 3. -01	ug/g	AA0008
			Hexachlorocyclopentadiene		LT 3. -01	ug/g	AAND06
			Chlorobenzene		LT 3. -01	ug/g	AA0008
			Chlordane		LT 6. -01	ug/g	AAND06
			p-Chlorophenylmethyl Sulfide		LT 4. +00	ug/g	AAND06
			p-Chlorophenylmethyl Sulfoxide		LT 7. +00	ug/g	AAND06
			p-Chlorophenylmethyl Sulfone		LT 6. -01	ug/g	AAND06
			Chromium		LT 6.5 +00	ug/g	ABD014
			Copper		7.2 +00	ug/g	ABD014
			Dibromochloropropane		LT 3. -01	ug/g	AAND06
			Dibromochloropropane		LT 4. -01	ug/g	AA0008
			Dicyclopentadiene		LT 4. -01	ug/g	AAND06
			Dicyclopentadiene		LT 3. -01	ug/g	AA0008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0003	4-5	Soil	Vapona	LT 3. -01	ug/g	AAND06
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AAND06
			Dithiane	LT 7. +00	ug/g	AAND06
			Diieldrin	LT 3. -01	ug/g	AAND06
			Dimethylidisulfide	LT 3. -01	ug/g	AA0008
			Endrin	LT 3. -01	ug/g	AAND06
			Ethylbenzene	LT 3. -01	ug/g	AA0008
			Mercury	LT 5.0 -02	ug/g	AAI017
			Isodrin	LT 3. -01	ug/g	AAND06
			Toluene	LT 3. -01	ug/g	AA0008
			Methylisobutyl Ketone	LT 3. -01	ug/g	AA0008
			Malathion	LT 3. -01	ug/g	AAND06
			1,4-Oxathiane	LT 6. +00	ug/g	AAND06
			Lead	LT 8.4 +00	ug/g	ABD014
			Dichlorodiphenylethane	LT 3. -01	ug/g	AAND06
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	AAND06
			Parathion	LT 4. -01	ug/g	AAND06
			2-Chloro-1(2,4-Dichlorophenyl) Vinyldiethyl Phosphates	LT 3. -01	ug/g	AAND06
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AA0008
			Tetrachloroethene	LT 3. -01	ug/g	AA0008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0003	4-5	Soil	Trichloroethene	LT 3. -01	ug/g	AA0008
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AA0008
			Zinc	3. 3 +01	ug/g	ABD014
			Aldrin	LT 3. -01	ug/g	ABSD02
0004	0-1	Soil	Arsenic	LT 5.0 +00	ug/g	AAW009
			Atrazine	LT 3. -01	ug/g	ABSD02
			Cadmium	LT 7.4 -01	ug/g	ABE009
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABSD02
			Chlordane	LT 6. -01	ug/g	ABSD02
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABSD02
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABSD02
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABSD02
			Chromium	LT 6.5 +00	ug/g	ABE009
			Copper	8. 6 +00	ug/g	ABE009
			Dibromochloropropane	LT 3. -01	ug/g	ABSD02
			Dicyclopentadiene	LT 4. -01	ug/g	ABSD02
			Vapona	LT 3. -01	ug/g	ABSD02
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABSD02
			Dithiane	LT 7. +00	ug/g	ABSD02
			Dieldrin	2. +01	ug/g	ABSD02
			Endrin	LT 3. -01	ug/g	ABSD02

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Conc.	Method			
0004	0-1	Soil	Mercury		LT 5.0 -02	ug/g	AAL005
			Isodrin		LT 3. -01	ug/g	ABSD02
			Malathion		LT 3. -01	ug/g	ABSD02
			1,4-Oxathiane		LT 6. +00	ug/g	ABSD02
			Lead		1.7 +01	ug/g	ABED09
			Dichlorodiphenylethane		LT 3. -01	ug/g	ABSD02
			Dichlorodiphenyltrichloro-ethane		LT 6. -01	ug/g	ABSD02
			Parathion		LT 4. -01	ug/g	ABSD02
			2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates		LT 3. -01	ug/g	ABSD02
			Zinc		3.8 +01	ug/g	ABED09
0004	4-5	Soil	1,1,1-Trichloroethane		LT 3. -01	ug/g	AB0003
			1,1,2-Trichloroethane		LT 3. -01	ug/g	AB0003
			1,1-Dichloroethane		LT 9. -01	ug/g	AB0003
			1,2-Dichloroethane		LT 3. -01	ug/g	AB0003
			m-Xylene		LT 7. -01	ug/g	AB0003
			Arsenic		LT 5.0 +00	ug/g	AAW010
			Bicycloheptadiene		LT 3. -01	ug/g	ABD003
			Benzene		LT 3. -01	ug/g	AB0003
			Carbon Tetrachloride		LT 3. -01	ug/g	AB0003
			Cadmium		LT 7.4 -01	ug/g	ABE010

Note: Results for Dibromochloropropane (UBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (UCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0004	4-5	Soil	Methylene Chloride Chloroform	LT 7. -01	ug/g	AB0003
			Chlorobenzene	LT 3. -01	ug/g	AB0003
			Chromium	LT 3. -01	ug/g	AB0003
			Copper	1.5 +01	ug/g	ABE010
			Dibromochloropropane	1.3 +01	ug/g	ABE010
			Dicyclopentadiene	LT 4. -01	ug/g	AB0003
			Dimethyl disulfide	2. +02	ug/g	AB0003
			Ethylbenzene	LT 8. -01	ug/g	AB0003
			Mercury	LT 5.0 -02	ug/g	AAL006
			Toluene	LT 3. -01	ug/g	AB0003
			Methylisobutyl Ketone	LT 3. -01	ug/g	AB0003
			Lead	LT 8.4 +00	ug/g	ABE010
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0003
			Tetrachloroethene	LT 3. -01	ug/g	AB0003
			Trichloroethene	LT 3. -01	ug/g	AB0003
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0003
			Zinc	5.5 +01	ug/g	ABE010
			Aldrin	LT 3. +00	ug/g	ABS003
			Atrazine	LT 3. +00	ug/g	ABS003
			Hexachlorocyclopentadiene	LT 3. +00	ug/g	ABS003

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			LT	LT			
0004	4-5	Soil	Chlordane	LT	6. +00	ug/g	ABSD03
			p-Chlorophenylmethyl Sulfide	LT	4. +01	ug/g	ABSD03
			p-Chlorophenylmethyl Sulfoxide	LT	7. +01	ug/g	ABSD03
			p-Chlorophenylmethyl Sulfone	LT	6. +00	ug/g	ABSD03
			Dibromochloropropane	LT	3. +00	ug/g	ABSD03
			Dicyclopentadiene	LT	1. +02	ug/g	ABSD03
			Vapona	LT	3. +00	ug/g	ABSD03
			Diisopropylmethyl Phosphonate	LT	3. +00	ug/g	ABSD03
			Dieeldrin	LT	3. +00	ug/g	ABSD03
			Endrin	LT	3. +00	ug/g	ABSD03
			Isodrin	LT	3. +00	ug/g	ABSD03
			Malathion	LT	3. +00	ug/g	ABSD03
			Dichlorodiphenylethane	LT	3. +00	ug/g	ABSD03
			Dichlorodiphenyltrichloroethane	LT	6. +00	ug/g	ABSD03
			Parathion	LT	3. +00	ug/g	ABSD03
			2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates	LT	3. +00	ug/g	ABSD03
			Aldrin	LT	3. -01	ug/g	ABSD04
0005	0-1	Soil	Arsenic	LT	5.0 +00	ug/g	ABK006
			Atrazine	LT	3. -01	ug/g	ABSD04
			Cadmium	LT	7.4 -01	ug/g	ABGD06

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0005	0-1	Soil	Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABSD04
		Chlordane		LT 6. -01	ug/g	ABSD04
		p-Chlorophenylmethyl Sulfide		LT 4. +00	ug/g	ABSD04
		p-Chlorophenylmethyl Sulfoxide		LT 7. +00	ug/g	ABSD04
		p-Chlorophenylmethyl Sulfone		LT 6. -01	ug/g	ABSD04
		Chromium		1.2 +01	ug/g	ABGD06
		Copper		1.3 +01	ug/g	ABGD06
		Dibromochloropropane		LT 3. -01	ug/g	ABSD04
		Dicyclopentadiene		LT 4. -01	ug/g	ABSD04
		Vapors		LT 3. -01	ug/g	ABSD04
		Diisopropylmethyl Phosphonate		LT 3. -01	ug/g	ABSD04
		Dithiane		LT 7. +00	ug/g	ABSD04
		Dieeldrin		LT 3. -01	ug/g	ABSD04
		Endrin		LT 3. -01	ug/g	ABSD04
		Mercury		LT 5.0 -02	ug/g	ABJ006
		Isodrin		LT 3. -01	ug/g	ABSD04
		Malathion		LT 3. -01	ug/g	ABSD04
		1,4-Oxathiane		1.3 +01	ug/g	ABGD06
		Lead		LT 3. -01	ug/g	ABSD04
		Dichlorodiphenylethane		LT 6. +00	ug/g	ABSD04
		Dichlorodiphenyltrichloro-ethane		LT 6. -01	ug/g	ABSD04

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0005	0-1	Soil	Parathion 2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 4. -01	ug/g	ABSO04
			Zinc	4.4 +01	ug/g	ABG006
0005	4-5	Soil	1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dichloroethane	LT 3. -01 LT 3. -01 LT 9. -01 LT 3. -01	ug/g	AB0004 AB0004 AB0004 AB0004
			m-Xylene	LT 7. -01	ug/g	AB0004
			Bicycloheptadiene	LT 3. -01	ug/g	AB0004
			Benzene	LT 3. -01	ug/g	AB0004
			Carbon Tetrachloride	LT 3. -01	ug/g	AB0004
			Methylene Chloride	LT 7. -01	ug/g	AB0004
			Chloroform	LT 3. -01	ug/g	AB0004
			Chlorobenzene	LT 3. -01	ug/g	AB0004
			Dibromochloropropane	LT 4. -01	ug/g	AB0004
			Dicyclopentadiene	LT 3. -01	ug/g	AB0004
			Dimethyldisulfide	LT 8. -01	ug/g	AB0004
			Ethylbenzene	LT 3. -01	ug/g	AB0004
			Toluene	LT 3. -01	ug/g	AB0004
			Methylisobutyl Ketone	LT 3. -01	ug/g	AB0004

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			LT	LT			
0005	4-5	Soil	Trans-1,2-Dichloroethene	LT	3. -01	ug/g	AB0004
			Tetrachloroethene	LT	3. -01	ug/g	AB0004
			Trichloroethene	LT	3. -01	ug/g	AB0004
			Ortho- & Para-Xylene	LT	3. -01	ug/g	AB0004
			Aldrin	LT	3. -01	ug/g	AB5005
			Arsenic	LT	5.0 +00	ug/g	ABK007
			Atrazine	LT	3. -01	ug/g	AB5005
			Cadmium	LT	7.4 -01	ug/g	ABG007
			Hexachlorocyclopentadiene	LT	3. -01	ug/g	AB5005
			Chlordane	LT	6. -01	ug/g	AB5005
			p-Chlorophenylmethyl Sulfide	LT	4. +00	ug/g	AB5005
			p-Chlorophenylmethyl Sulfoxide	LT	7. +00	ug/g	AB5005
			p-Chlorophenylmethyl Sulfone	LT	6. -01	ug/g	AB5005
			Chromium	LT	1.1 +01	ug/g	ABG007
			Copper	LT	1.5 +01	ug/g	ABG007
			Dibromochloropropane	LT	3. -01	ug/g	AB5005
			Dicyclopentadiene	LT	4. -01	ug/g	AB5005
			Vapona	LT	3. -01	ug/g	AB5005
			Diisopropylmethyl Phosphonate	LT	3. -01	ug/g	AB5005
			Dithiane	LT	7. +00	ug/g	AB5005
			Dieldrin	LT	3. -01	ug/g	AB5005

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0005	4-5	Soil	Endrin	LT 3. -01	ug/g	ABSO05
			Mercury	LT 5.0 -02	ug/g	ABJ007
			Isodrin	LT 3. -01	ug/g	ABSO05
			Malathion	LT 3. -01	ug/g	ABSO05
			1,4-Oxathiane	LT 6. +00	ug/g	ABSO05
			Lead	1.7 +01	ug/g	ABG007
			Dichlorodiphenylmethane	LT 3. -01	ug/g	ABSO05
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABSO05
			Parathion	LT 4. -01	ug/g	ABSO05
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABSO05
			Zinc	8.1 +01	ug/g	ABG007
0005	5-5.5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	ABO005
			1,1,2-Trichloroethane	LT 3. -01	ug/g	ABO005
			1,1-Dichloroethane	LT 9. -01	ug/g	ABO005
			1,2-Dichloroethane	LT 3. -01	ug/g	ABO005
			m-Xylene	LT 7. -01	ug/g	ABO005
			Arsenic	LT 5.0 +00	ug/g	ABK008
			Bicycloheptadiene	LT 3. -01	ug/g	ABO005
			Benzene	LT 3. -01	ug/g	ABO005
			Carbon Tetrachloride	LT 3. -01	ug/g	ABO005

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			LT	AB			
0005	5-5.5	Soil	Cadmium	LT	7.4 -01	ug/g	ABG008
			Methylene Chloride	LT	7. -01	ug/g	AB0005
			Chloroform	LT	3. -01	ug/g	AB0005
			Chlorobenzene	LT	3. -01	ug/g	AB0005
			Chromium	LT	1.2 +01	ug/g	ABG008
			Copper	LT	1.3 +01	ug/g	ABG008
			Dibromochloropropane	LT	4. -01	ug/g	AB0005
			Dicyclopentadiene	LT	1. +00	ug/g	AB0005
			Dimethyldisulfide	LT	8. -01	ug/g	AB0005
			Ethylbenzene	LT	3. -01	ug/g	AB0005
			Mercury	LT	5.0 -02	ug/g	ABJ008
			Toluene	LT	3. -01	ug/g	AB0005
			Methylisobutyl Ketone	LT	3. -01	ug/g	AB0005
			Lead	LT	8.4 +00	ug/g	ABG008
0006	0-1	Soil	Trans-1,2-Dichloroethene	LT	3. -01	ug/g	AB0005
			Tetrachloroethene	LT	3. -01	ug/g	AB0005
			Trichloroethene	LT	3. -01	ug/g	AB0005
			Ortho- & Para-Xylene	LT	3. -01	ug/g	AB0005
			Zinc	LT	8.8 +01	ug/g	ABG008
			Aldrin	LT	3. -01	ug/g	ABG007
			Arsenic	LT	5.0 +00	ug/g	ABK009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	0-1	Soil	Atrazine	LT 3. -01	ug/g	AB5007
			Cadmium	LT 7.4 -01	ug/g	ABG009
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	AB5007
			Chlordane	LT 6. -01	ug/g	AB5007
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	AB5007
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	AB5007
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	AB5007
			Chromium	1.5 +01	ug/g	ABG009
			Copper	1.1 +01	ug/g	ABG009
			Dibromochloropropane	LT 3. -01	ug/g	AB5007
			Dicyclopentadiene	LT 4. -01	ug/g	AB5007
			Vapona	LT 3. -01	ug/g	AB5007
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AB5007
			Dithiane	LT 7. +00	ug/g	AB5007
			Dieルドrin	LT 3. -01	ug/g	AB5007
			Endrin	LT 3. -01	ug/g	AB5007
			Mercury	LT 5.0 -02	ug/g	ABJ009
			Isodrin	LT 3. -01	ug/g	AB5007
			Malathion	LT 3. -01	ug/g	AB5007
			1,4-Oxathiane	LT 6. +00	ug/g	AB5007
			Lead	1.4 +01	ug/g	ABG009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	0-1	Soil	Dichlorodiphenylethane Dichlorodiphenyltrichloro- ethane	LT 3. -01	ug/g	ABS007
			Parathion	LT 6. -01	ug/g	ABS007
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 4. -01	ug/g	ABS007
			Zinc	LT 3. -01	ug/g	ABS007
0006	3.5-4	Soil	1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dichloroethane	4.2 +01	ug/g	ABG009
			m-Xylene	LT 3. -01	ug/g	AB0007
			Aldrin	LT 7. -01	ug/g	AB0007
			Arsenic	LT 3. -01	ug/g	AB5009
			Atrazine	LT 5.0 +00	ug/g	ABK011
			Bicycloheptadiene	LT 3. -01	ug/g	AB0007
			Benzene	LT 3. -01	ug/g	AB0007
			Carbon Tetrachloride	LT 3. -01	ug/g	AB0007
			Cadmium	LT 7.4 -01	ug/g	ABG011
			Methylene Chloride	LT 7. -01	ug/g	AB0007
			Chloroform	LT 3. -01	ug/g	AB0007
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	AB5009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
0006	3.5-4	Soil	Chlorobenzene		LT 3. -01	ug/g	AB0007
			Chlordane		LT 6. -01	ug/g	AB5009
			p-Chlorophenylmethyl Sulfide		LT 4. +00	ug/g	AB5009
			p-Chlorophenylmethyl Sulfoxide		LT 7. +00	ug/g	AB5009
			p-Chlorophenylmethyl Sulfone		LT 6. -01	ug/g	AB5009
			Chromium		1.5 +01	ug/g	AB5009
			Copper		1.7 +01	ug/g	ABG011
			Dibromochloropropane		LT 4. -01	ug/g	AB0007
			Dibromochloropropane		LT 3. -01	ug/g	AB5009
			Dicyclopentadiene		4. +00	ug/g	AB0007
			Dicyclopentadiene		7. -01	ug/g	AB5009
			Vapona		LT 3. -01	ug/g	AB5009
			Diisopropylmethyl Phosphonate		LT 3. -01	ug/g	AB5009
			Dithiane		LT 7. +00	ug/g	AB5009
			Dieledrin		LT 3. -01	ug/g	AB5009
			Dimethyldisulfide		LT 8. -01	ug/g	AB0007
			Endrin		LT 3. -01	ug/g	AB5009
			Ethylbenzene		LT 3. -01	ug/g	AB0007
			Mercury		LT 5.0 -02	ug/g	ABJ011
			Isodrin		LT 3. -01	ug/g	AB5009
			Toluene		LT 3. -01	ug/g	AB0007

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	3.5-4	Soil	Methylisobutyl Ketone	LT 3. -01	ug/g	AB0007
			Malathion	LT 3. -01	ug/g	AB0009
			1,4-Oxathiane	LT 6. +00	ug/g	AB0009
			Lead	LT 8.4 +00	ug/g	ABG011
			Dichlorodiphenylmethane	LT 3. -01	ug/g	AB0009
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	AB0009
			Parathion	LT 4. -01	ug/g	AB0009
			2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates	LT 3. -01	ug/g	AB0009
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0007
			Tetrachloroethene	LT 3. -01	ug/g	AB0007
			Trichloroethene	LT 3. -01	ug/g	AB0007
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0007
			Zinc	4.8 +01	ug/g	ABG011
0006	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AB0006
			1,1,2-Trichloroethane	LT 3. -01	ug/g	AB0006
			1,1-Dichloroethane	LT 9. -01	ug/g	AB0006
			1,2-Dichloroethane	LT 3. -01	ug/g	AB0006
			m-Xylene	LT 7. -01	ug/g	AB0006
			Bicycloheptadiene	LT 3. -01	ug/g	AB0006
			Benzene	LT 3. -01	ug/g	AB0006

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Bicyclopentadiene (UCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	4-5	Soil	Carbon Tetrachloride	LT 3. -01	ug/g	AB0006
			Methylene Chloride	LT 7. -01	ug/g	AB0006
			Chloroform	LT 3. -01	ug/g	AB0006
			Chlorobenzene	LT 3. -01	ug/g	AB0006
			Dibromochloropropane	LT 4. -01	ug/g	AB0006
			Dicyclopentadiene	4. +00	ug/g	AB0006
			Dimethyl disulfide	LT 8. -01	ug/g	AB0006
			Ethylbenzene	LT 3. -01	ug/g	AB0006
			Mercury	LT 5.0 -02	ug/g	ABJ010
			Toluene	LT 3. -01	ug/g	AB0006
			Methylisobutyl Ketone	LT 3. -01	ug/g	AB0006
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0006
			Tetrachloroethene	LT 3. -01	ug/g	AB0006
			Trichloroethene	LT 3. -01	ug/g	AB0006
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0006
			Aldrin	LT 3. -01	ug/g	ABS008
			Arsenic	LT 5.0 +00	ug/g	ABK010
			Atrazine	LT 3. -01	ug/g	ABS008
			Cadmium	LT 7.4 -01	ug/g	ABG010
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABS008
			Chlordane	LT 6. -01	ug/g	ABS008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

Task 2 , Site 1-10 South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	4-5	Soil	p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABSO08
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABSO08
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABSO08
			Chromium	1.5 +01	ug/g	ABG010
			Copper	1.7 +01	ug/g	ABG010
			Dibromochloropropane	LT 3. -01	ug/g	ABSO08
			Dicyclopentadiene	LT 4. -01	ug/g	ABSO08
			Vapona	LT 3. -01	ug/g	ABSO08
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABSO08
			Dithiane	LT 7. +00	ug/g	ABSO08
			Diieldrin	LT 3. -01	ug/g	ABSO08
			Endrin	LT 3. -01	ug/g	ABSO08
			Isodrin	LT 3. -01	ug/g	ABSO08
			Malathion	LT 3. -01	ug/g	ABSO08
			1,4-Oxathiane	LT 6. +00	ug/g	ABSO08
			Lead	LT 8.4 +00	ug/g	ABG010
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABSO08
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	ABSO08
			Parathion	LT 4. -01	ug/g	ABSO08
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABSO08

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
Summary of Analytical Results

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0006	4-5	Soil	Zinc	4.6 +01	ug/g	AB6010
0007	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABZ004
			Arsenic	LT 5.0 +00	ug/g	AAW015
			Atrazine	LT 3. -01	ug/g	ABZ004
			Cadmium	LT 7.4 -01	ug/g	ABE015
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ004
			Chlordane	LT 6. -01	ug/g	ABZ004
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ004
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ004
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ004
			Chromium	8.4 +00	ug/g	ABE015
			Copper	6.7 +00	ug/g	ABE015
			Dibromochloropropane	LT 3. -01	ug/g	ABZ004
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ004
			Vapone ^a	LT 3. -01	ug/g	ABZ004
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ004
			Dithiane	LT 7. +00	ug/g	ABZ004
			Dieldrin	LT 3. -01	ug/g	ABZ004
			Endrin	LT 3. -01	ug/g	ABZ004
			Mercury	LT 5.0 -02	ug/g	AAL011
			Isodrin	LT 3. -01	ug/g	ABZ004

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (UCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0007	0-1	Soil	Malathion 1,4-Oxathiane	LT 3. -01 LT 6. +00	ug/g ug/g	ABZ004 ABZ004
			Lead	LT 8.4 +00	ug/g	ABE015
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ004
			Dichlorodiphenyltrichloro- ethane	LT 6. -01	ug/g	ABZ004
			Parathion	LT 4. -01	ug/g	ABZ004
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABZ004
			Zinc	3.8 +01	ug/g	ABE015
0007	4-5	Soil	1,1,1-Trichloroethane 1,1,2-Trichloroethane	LT 3. -01 LT 3. -01	ug/g ug/g	ABR003 ABR003
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR003
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR003
			m-Xylene	LT 7. -01	ug/g	ABR003
			Aldrin	LT 3. -01	ug/g	ABZ005
			Arsenic	LT 5.0 +00	ug/g	AAW016
			Atrazine	LT 3. -01	ug/g	ABZ005
			Bicycloheptadiene	LT 3. -01	ug/g	ABR003
			Benzene	LT 3. -01	ug/g	ABR003
			Carbon Tetrachloride	LT 3. -01	ug/g	ABR003
			Cadmium	LT 7.4 -01	ug/g	ABE016

Note : Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

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South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0007	4-5	Soil	Methylene Chloride Chloroform	LT 7. -01	ug/g	ABRO03
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABRO03
			Chlorobenzene	LT 3. -01	ug/g	ABRO03
			Chlordane	LT 6. -01	ug/g	AB2005
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	AB2005
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	AB2005
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	AB2005
			Chromium	9.0 +00	ug/g	ABE016
			Copper	6.3 +00	ug/g	ABE016
			Dibromochloropropane	LT 4. -01	ug/g	ABRO03
			Dibromochloropropane	LT 3. -01	ug/g	AB2005
			Dicyclopentadiene	LT 3. -01	ug/g	ABRO03
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ005
			Vapona	LT 3. -01	ug/g	ABZ005
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ005
			Dithiane	LT 7. +00	ug/g	ABZ005
			Dieeldrin	LT 3. -01	ug/g	ABZ005
			Dimethyldisulfide	LT 8. -01	ug/g	ABRO03
			Endrin	LT 3. -01	ug/g	ABZ005
			Ethylbenzene	LT 3. -01	ug/g	ABRO03

Note : Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0007	4-5	Soil	Mercury	LT 5.0 -02	ug/g	AAL012
			Isodrin	LT 3. -01	ug/g	ABZ005
			Toluene	LT 3. -01	ug/g	ABR003
			Methylisobutyl Ketone	LT 3. -01	ug/g	ABR003
			Malathion	LT 3. -01	ug/g	ABZ005
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ005
			Lead	LT 8.4 +00	ug/g	ABE016
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ005
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABZ005
			Parathion	LT 4. -01	ug/g	ABZ005
			2-Chloro-1(2,4-Dichlorophenyl) Vinyldiethyl Phosphates	LT 3. -01	ug/g	ABZ005
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	ABR003
			Tetrachloroethene	LT 3. -01	ug/g	ABR003
			Trichloroethene	LT 3. -01	ug/g	ABR003
			Ortho- & Para-Xylene	LT 3. -01	ug/g	ABR003
			Zinc	3.6 +01	ug/g	ABE016
0008	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABZ008
			Arsenic	LT 5.0 +00	ug/g	AAW019
			Atrazine	LT 3. -01	ug/g	ABZ008
			Cadmium	LT 7.4 -01	ug/g	ABE019

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Rocky Mountain Arsenic Program
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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0008	0-1	Soil	Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ008
			Chlordane	LT 6. -01	ug/g	ABZ008
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ008
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ008
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ008
			Chromium	8.9 +00	ug/g	ABE019
			Copper	8.1 +00	ug/g	ABE019
			Dibromochloropropane	LT 3. -01	ug/g	ABZ008
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ008
			Vapona	LT 3. -01	ug/g	ABZ008
			Disopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ008
			Dithiane	LT 7. +00	ug/g	ABZ008
			Dieledrin	LT 3. -01	ug/g	ABZ008
			Endrin	LT 3. -01	ug/g	ABZ008
			Mercury	LT 5.0 -02	ug/g	AAL015
			Isodrin	LT 3. -01	ug/g	ABZ008
			Malathion	LT 3. -01	ug/g	ABZ008
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ008
			Lead	1.1 +01	ug/g	ABE019
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ008
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABZ008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0008	0-1	Soil	Parathion	LT 4. -01	ug/g	ABZ008
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABZ008
			Zinc	3.8 +01	ug/g	ABE019
0008	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	ABR005
			1,1,2-Trichloroethane	LT 3. -01	ug/g	ABR005
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR005
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR005
			m-Xylene	LT 7. -01	ug/g	ABR005
			Aldrin	LT 3. -01	ug/g	ABZ009
			Arsenic	LT 5.0 +00	ug/g	AAW020
			Atrazine	LT 3. -01	ug/g	ABZ009
			Bicycloheptadiene	LT 3. -01	ug/g	ABR005
			Benzene	LT 3. -01	ug/g	ABR005
			Carbon Tetrachloride	LT 7.4 -01	ug/g	ABR005
			Cadmium	LT 7. -01	ug/g	ABE020
			Methylene Chloride	LT 7. -01	ug/g	ABR005
			Chloroform	LT 3. -01	ug/g	ABR005
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ009
			Chlorobenzene	LT 3. -01	ug/g	ABR005
			Chlordane	LT 6. -01	ug/g	ABZ009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0008	4-5	Soil	p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ009
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ009
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ009
			Chromium	LT 6.5 +00	ug/g	ABE020
			Copper	1.4 +01	ug/g	ABE020
			Dibromochloropropane	LT 4. -01	ug/g	ABR005
			Dibromochloropropane	LT 3. -01	ug/g	ABZ009
			Dicyclopentadiene	LT 3. -01	ug/g	ABR005
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ009
			Vapona	LT 3. -01	ug/g	ABZ009
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ009
			Dithiane	LT 7. +00	ug/g	ABZ009
			Dieldrin	LT 3. -01	ug/g	ABZ009
			Dimethylidisulfide	LT 8. -01	ug/g	ABR005
			Endrin	LT 3. -01	ug/g	ABZ009
			Ethylibenzene	LT 3. -01	ug/g	ABR005
			Mercury	LT 5.0 -02	ug/g	AAL016
			Isodrin	LT 3. -01	ug/g	ABZ009
			Toluene	LT 3. -01	ug/g	ABR005
			Methylisobutyl Ketone	LT 3. -01	ug/g	ABR005
			Malathion	LT 3. -01	ug/g	ABZ009

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0008	4-5	Soil	1,4-Oxathiane	LT 6. +00	ug/g	ABZ009
		Lead		LT 8.4 +00	ug/g	ABE020
		Dichlorodiphenylethane		LT 3. -01	ug/g	ABZ009
		Dichlorodiphenyltrichloroethane		LT 6. -01	ug/g	ABZ009
		Parathion		LT 4. -01	ug/g	ABZ009
		2-Chloro-1(2,4-Dichlorophenyl) Vinylidioethyl Phosphates		LT 3. -01	ug/g	ABZ009
		Trans-1,2-Dichloroethene		LT 3. -01	ug/g	ABR005
		Tetrachloroethene		LT 3. -01	ug/g	ABR005
		Trichloroethene		LT 3. -01	ug/g	ABR005
		Ortho- & Para-Xylene		LT 3. -01	ug/g	ABR005
		Zinc		4.9 +01	ug/g	ABE020
0009	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABZ010
		Arsenic		LT 5.0 +00	ug/g	AAX005
		Atrazine		LT 3. -01	ug/g	ABZ010
		Cadmium		LT 7.4 -01	ug/g	ABF005
		Hexachlorocyclopentadiene		LT 3. -01	ug/g	ABZ010
		Chlordane		LT 6. -01	ug/g	ABZ010
		p-Chlorophenylmethyl Sulfide		LT 4. +00	ug/g	ABZ010
		p-Chlorophenylmethyl Sulfoxide		LT 7. +00	ug/g	ABZ010
		p-Chlorophenylmethyl Sulfone		LT 6. -01	ug/g	ABZ010

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Rocky Mountain Arsenal Program
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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Conc.	Method			
0009	0-1	Soil	Chromium		9.7 +00	ug/g	ABF005
			Copper		7.8 +00	ug/g	ABF005
			Dibromochloropropane	LT	3. -01	ug/g	ABZ010
			Dicyclopentadiene	LT	4. -01	ug/g	ABZ010
			Vapona	LT	3. -01	ug/g	ABZ010
			Diisopropylmethyl Phosphonate	LT	3. -01	ug/g	ABZ010
			Dithiane	LT	7. +00	ug/g	ABZ010
			Dieldrin	LT	3. -01	ug/g	ABZ010
			Endrin	LT	3. -01	ug/g	ABZ010
			Mercury	LT	5.0 -02	ug/g	AAL017
			Isodrin	LT	3. -01	ug/g	ABZ010
			Malathion	LT	3. -01	ug/g	ABZ010
			1,4-Oxathiane	LT	6. +00	ug/g	ABZ010
			Lead	LT	8.4 +00	ug/g	ABF005
			Dichlorodiphenylethane	LT	3. -01	ug/g	ABZ010
			Dichlorodiphenyltrichloroethane	LT	6. -01	ug/g	ABZ010
			Parathion	LT	4. -01	ug/g	ABZ010
			2-Chloro-1(2,4-Dichlorophenyl) Vinyldiethyl Phosphates	LT	3. -01	ug/g	ABZ010
			Zinc	3.1 +01	ug/g	ABF005	
0009	4-5	Soil	Mercury	LT	5.0 -02	ug/g	AAL018

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
0009	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	ABR006	
			1,1,2-Trichloroethane	LT 3. -01	ug/g	ABR006	
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR006	
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR006	
			m-Xylene	LT 7. -01	ug/g	ABR006	
			Aldrin	LT 3. -01	ug/g	ABZ011	
			Arsenic	LT 5.0 +00	ug/g	AA0006	
			Atrazine	LT 3. -01	ug/g	ABZ011	
			Bicycloheptadiene	LT 3. -01	ug/g	ABR006	
			Benzene	LT 3. -01	ug/g	ABR006	
			Carbon Tetrachloride	LT 3. -01	ug/g	ABR006	
			Cadmium	LT 7.4 -01	ug/g	ABFO06	
			Methylene Chloride	LT 7. -01	ug/g	ABR006	
			Chloroform	LT 3. -01	ug/g	ABR006	
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ011	
			Chlorobenzene	LT 3. -01	ug/g	ABR006	
			Chlordane	LT 6. -01	ug/g	ABZ011	
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ011	
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ011	
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ011	
			Chromium	LT 6. 5 +00	ug/g	ABFO06	

Note: Results for dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

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South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0009	4-5	Soil	Copper	LT 4.7 +00	ug/g	ABF006
			Dibromochloropropane	LT 4. -01	ug/g	ABR006
			Dibromochloropropane	LT 3. -01	ug/g	ABZ011
			Dicyclopentadiene	LT 3. -01	ug/g	ABR006
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ011
			Vapona	LT 3. -01	ug/g	ABZ011
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ011
			Dithiane	LT 7. +00	ug/g	ABZ011
			Dieldrin	LT 3. -01	ug/g	ABZ011
			Dimethylidisulfide	LT 8. -01	ug/g	ABR006
			Endrin	LT 3. -01	ug/g	ABZ011
			Ethylbenzene	LT 3. -01	ug/g	ABR006
			I sodrin	LT 3. -01	ug/g	ABZ011
			Toluene	LT 3. -01	ug/g	ABR006
			Methylisobutyl Ketone	LT 3. -01	ug/g	ABR006
			Malathion	LT 3. -01	ug/g	ABZ011
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ011
			Lead	LT 8.4 +00	ug/g	ABF006
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ011
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABZ011

Note: Results for dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0009	4-5	Soil	Parathion 2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 4. -01	ug/g	ABZ011
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	ABZ011
			Tetrachloroethene	LT 3. -01	ug/g	ABR006
			Trichloroethene	LT 3. -01	ug/g	ABR006
			Ortho- & Para-Xylene	LT 3. -01	ug/g	ABR006
			Zinc	2.6 +01	ug/g	ABF006
0010	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABZ006
			Arsenic	LT 5.0 +00	ug/g	AAW017
			Atrazine	LT 3. -01	ug/g	ABZ006
			Cadmium	LT 7.4 -01	ug/g	ABE017
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ006
			Chlordane	LT 6. -01	ug/g	ABZ006
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ006
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ006
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ006
			Chromium	1.2 +01	ug/g	ABE017
			Copper	7.2 +00	ug/g	ABE017
			Dibromochloropropane	LT 3. -01	ug/g	ABZ006
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ006

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0010	0-1	Soil	Vapona Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ006
			Dithiane	LT 3. -01	ug/g	ABZ006
			Dieeldrin	LT 7. +00	ug/g	ABZ006
			Endrin	LT 3. -01	ug/g	ABZ006
			Mercury	LT 5.0 -02	ug/g	AAL013
			Isodrin	LT 3. -01	ug/g	ABZ006
			Malathion	LT 3. -01	ug/g	ABZ006
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ006
			Lead	LT 8.4 +00	ug/g	ABE017
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ006
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABZ006
			Parathion	LT 4. -01	ug/g	ABZ006
			2-Chloro-1(2,4-Dichlorophenyl)Vinyldiethyl Phosphates	LT 3. -01	ug/g	ABZ006
			Zinc	4.5 +01	ug/g	ABE017
0010	4-5	Soil	1,1,1-Trichloroethane 1,1,2-Trichloroethane	LT 3. -01	ug/g	ABR004
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR004
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR004
			m-Xylene	LT 7. -01	ug/g	ABR004

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results: Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
0010	4-5	Soil	Aldrin	LT 3. -01	ug/g	ABZ007	
			Arsenic	LT 5.0 +00	ug/g	AAW018	
			Attrazine	LT 3. -01	ug/g	ABZ007	
			Bicycloheptadiene	LT 3. -01	ug/g	ABR004	
			Benzene	LT 3. -01	ug/g	ABR004	
			Carbon Tetrachloride	LT 3. -01	ug/g	ABR004	
			Cadmium	LT 7.4 -01	ug/g	ABE018	
			Methylene Chloride	LT 7. -01	ug/g	ABR004	
			Chloroform	LT 3. -01	ug/g	ABR004	
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ007	
			Chlorobenzene	LT 3. -01	ug/g	ABR004	
			Chlordane	LT 6. -01	ug/g	ABZ007	
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ007	
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ007	
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ007	
			Chromium	LT 6.5 +00	ug/g	ABE018	
			Copper	2.3 +01	ug/g	ABE018	
			Dibromochloropropane	LT 4. -01	ug/g	ABR004	
			Dibromochloropropane	LT 3. -01	ug/g	ABZ007	
			Dicyclopentadiene	LT 3. -01	ug/g	ABR004	
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ007	

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
Summary of Analytical Results

Rocky Mountain Arsenal Program
Task 2 , Site 1-10 South Tank Farm

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0010	4-5	Soil	Vapone	LT 3. -01	ug/g	ABZ007
			Disopropylmethyl Phosphate	LT 3. -01	ug/g	ABZ007
			Dithiane	LT 7. +00	ug/g	ABZ007
			Diieldrin	LT 3. -01	ug/g	ABZ007
			Dimethyldisulfide	LT 8. -01	ug/g	ABR004
			Endrin	LT 3. -01	ug/g	ABZ007
			Ethylbenzene	LT 3. -01	ug/g	ABR004
			Mercury	LT 5.0 -02	ug/g	AAL014
			Isodrin	LT 3. -01	ug/g	ABR004
			Toluene	LT 3. -01	ug/g	ABR004
			Methylisobutyl Ketone	LT 3. -01	ug/g	ABR004
			Malathion	LT 3. -01	ug/g	ABZ007
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ007
			Lead	LT 8.4 +00	ug/g	ABE018
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ007
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	ABZ007
			Parathion	LT 4. -01	ug/g	ABZ007
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABZ007
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	ABR004
			Tetrachloroethene	LT 3. -01	ug/g	ABR004

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (UCFD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number		
0010	4-5	Soil	Trichloroethene	LT 3. -01	ug/g	ABR004		
			Ortho- & Para-Xylene	LT 3. -01	ug/g	ABR004		
			Zinc	6.0 +01	ug/g	ABE018		
0011	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABS010		
			Arsenic	LT 5.0 +00	ug/g	AAN011		
			Atrazine	LT 3. -01	ug/g	ABS010		
			Cadmium	LT 7.4 -01	ug/g	ABE011		
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABS010		
			Chlordane	LT 6. -01	ug/g	ABS010		
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABS010		
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABS010		
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABS010		
			Chromium	1.2 +01	ug/g	ABE011		
Copper								
8.5 +00								
Dibromochloropropane								
LT 3. -01								
Dicyclopentadiene								
LT 4. -01								
Vapona								
LT 3. -01								
Diisopropylmethyl Phosphonate								
Dithiane								
LT 7. +00								
Diieldrin								
LT 3. -01								
Endrin								

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0011	0-1	Soil	Mercury	LT 5.0 -02	ug/g	AAL007
			Isodrin	LT 3. -01	ug/g	ABSD010
			Malathion	LT 3. -01	ug/g	ABSD010
			1,4-Oxathiane	LT 6. +00	ug/g	ABSD010
			Lead	1.4 +01	ug/g	ABE011
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABSD010
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	ABSD010
			Parathion	LT 4. -01	ug/g	ABSD010
			2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates	LT 3. -01	ug/g	ABSD010
			Zinc	5.0 +01	ug/g	ABE011
0011	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	AB0008
			1,1,2-Trichloroethane	LT 3. -01	ug/g	AB0008
			1,1-Dichloroethane	LT 9. -01	ug/g	AB0008
			1,2-Dichloroethane	LT 3. -01	ug/g	AB0008
			m-Xylene	LT 7. -01	ug/g	AB0008
			Aldrin	LT 3. -01	ug/g	ABSD011
			Arsenic	LT 5.0 +00	ug/g	AAW012
			Atrazine	LT 3. -01	ug/g	ABSD011
			Bicycloheptadiene	LT 3. -01	ug/g	AB0008
			Benzene	LT 3. -01	ug/g	AB0008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0011	4-5	Soil	Carbon Tetrachloride	LT 3. -01	ug/g	AB0008
			Cadmium	LT 7.4 -01	ug/g	ABE012
			Methylene Chloride	LT 7. -01	ug/g	AB0008
			Chloroform	LT 3. -01	ug/g	AB0008
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABS011
			Chlorobenzene	LT 3. -01	ug/g	AB0008
			Chlordane	LT 6. -01	ug/g	ABS011
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABS011
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABS011
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABS011
			Chromium	1.0 +01	ug/g	ABE012
			Copper	6.7 +00	ug/g	ABE012
			Dibromochloropropane	LT 4. -01	ug/g	AB0008
			Dibromochloropropane	LT 3. -01	ug/g	ABS011
			Dicyclopentadiene	LT 3. -01	ug/g	AB0008
			Dicyclopentadiene	LT 4. -01	ug/g	ABS011
			Vapona	LT 3. -01	ug/g	ABS011
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABS011
			Dithiane	LT 7. +00	ug/g	ABS011
			Dieldrin	LT 3. -01	ug/g	ABS011
			Dimethyldisulfide	LT 8. -01	ug/g	AB0008

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated

Rocky Mountain Air-Serial Program

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Summary of Analytical Results

Task 2 , Site 1-10 South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0011	4-5	Soil	Endrin	LT 3. -01	ug/g	ABSD011
			Ethylbenzene	LT 3. -01	ug/g	ABD008
			Mercury	LT 5.0 -02	ug/g	AA0008
			Isodrin	LT 3. -01	ug/g	ABSD011
			Toluene	LT 3. -01	ug/g	AB0008
			Methylisobutyl Ketone	LT 3. -01	ug/g	AB0008
			Melathion	LT 3. -01	ug/g	ABSD011
			1,4-Oxathiane	LT 6. +00	ug/g	ABE0011
			Lead	1.4 +01	ug/g	ABE0012
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABSD011
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABSD011
			Parathion	LT 4. -01	ug/g	ABSD011
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABSD011
			Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0008
			Tetrachloroethene	LT 3. -01	ug/g	AB0008
			Trichloroethene	LT 3. -01	ug/g	AB0008
			Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0008
			Zinc	4.4 +01	ug/g	ABE012
0012	0-1	Soil	Aldrin	LT 3. -01	ug/g	ABZ002
			Arsenic	LT 5.0 +00	ug/g	AAW013

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

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Rocky Mountain Arsenal Program

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Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Parameter	Value			
0012	0-1	Soil	Atrazine	LT 3. -01	ug/g	ABZ002	
			Cadmium	LT 7.4 -01	ug/g	ABE013	
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ002	
			Chlordane	LT 6. -01	ug/g	ABZ002	
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ002	
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ002	
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ002	
			Chromium	1.5 +01	ug/g	ABE013	
			Copper	8.0 +00	ug/g	ABE013	
			Dibromochloropropane	LT 3. -01	ug/g	ABZ002	
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ002	
			Vapona	LT 3. -01	ug/g	ABZ002	
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ002	
			Dithiane	LT 7. +00	ug/g	ABZ002	
			Dieidrin	LT 3. -01	ug/g	ABZ002	
			Endrin	LT 3. -01	ug/g	ABZ002	
			Mercury	LT 5.0 -02	ug/g	AAL009	
			Isodrin	LT 3. -01	ug/g	ABZ002	
			Malathion	LT 3. -01	ug/g	ABZ002	
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ002	
			Lead	1.3 +01	ug/g	ABE013	

Note: Results for dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Rocky Mountain Arsenal Program

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
0012	0-1	Soil	Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ002	
			Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	ABZ002	
			Parathion	LT 4. -01	ug/g	ABZ002	
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT 3. -01	ug/g	ABZ002	
			Zinc	3.4 +01	ug/g	ABE013	
0012	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	ABR002	
			1,1,2-Trichloroethane	LT 3. -01	ug/g	ABR002	
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR002	
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR002	
			m-Xylene	LT 7. -01	ug/g	ABR002	
			Aldrin	LT 3. -01	ug/g	ABZ003	
			Arsenic	LT 5.0 +00	ug/g	AAW014	
			Atrazine	LT 3. -01	ug/g	ABZ003	
			Bicycloheptadiene	LT 3. -01	ug/g	ABR002	
			Benzene	LT 3. -01	ug/g	ABR002	
			Carbon Tetrachloride	LT 3. -01	ug/g	ABR002	
			Cadmium	LT 7.4 -01	ug/g	ABE014	
			Methylene Chloride	LT 7. -01	ug/g	ABR002	
			Chloroform	LT 3. -01	ug/g	ABR002	
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ003	

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions. Results for Dicycloperitidine (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Summary of Analytical Results

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0012	4-5	Soil	Chlorobenzene	LT 3. -01	ug/g	ABR002
			chloroane	LT 6. -01	ug/g	ABZ003
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ003
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ003
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ003
			Chromium	LT 6.5 +00	ug/g	ABE014
			Copper	7.6 +00	ug/g	ABE014
			Dibromochloropropane	LT 4. -01	ug/g	ABR002
			Dibromochloropropane	LT 3. -01	ug/g	ABZ003
			Dicyclopentadiene	LT 3. -01	ug/g	ABR002
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ003
			Vapone	LT 3. -01	ug/g	ABZ003
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ003
			Dithiane	LT 7. +00	ug/g	ABZ003
			Diieldrin	LT 3. -01	ug/g	ABZ003
			Dimethyldisulfide	LT 8. -01	ug/g	ABR002
			Endrin	LT 3. -01	ug/g	ABZ003
			Ethylbenzene	LT 3. -01	ug/g	ABR002
			Mercury	LT 5.0 -02	ug/g	AAL010
			Isodrin	LT 3. -01	ug/g	ABZ003
			Toluene	LT 3. -01	ug/g	ABR002

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions. Results for Bicyclopentadiene (BPCD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
Summary of Analytical Results

Rocky Mountain Arsenal Program
Task 2 , Site 1-10 South Tank Farm

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			LT	LT			
0012	4-5	Soil	Methylisobutyl Ketone	LT	3. -01	ug/g	ABR002
			Malathion	LT	3. -01	ug/g	ABZ003
			1,4-Oxathiane	LT	6. +00	ug/g	ABZ003
			Lead	LT	8.4 +00	ug/g	ABED14
			Dichlorodiphenylmethane	LT	3. -01	ug/g	ABZ003
			Dichlorodiphenyltrichloro-ethane	LT	6. -01	ug/g	ABZ003
			Parathion	LT	4. -01	ug/g	ABZ003
			2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates	LT	3. -01	ug/g	ABZ003
			Trans-1,2-Dichloroethene	LT	3. -01	ug/g	ABR002
			Tetrachloroethene	LT	3. -01	ug/g	ABR002
			Trichloroethene	LT	3. -01	ug/g	ABR002
			Ortho- & Para-Xylene	LT	3. -01	ug/g	ABR002
			Zinc	2.9 +01	ug/g		ABED14
			Aldrin	LT	3. -01	ug/g	ABZ012
0013	0-1	Soil	Arsenic	LT	5.0 +00	ug/g	AAX007
			Atrazine	LT	3. -01	ug/g	ABZ012
			Cadmium	LT	7.4 -01	ug/g	ABF007
			Hexachlorocyclopentadiene	LT	3. -01	ug/g	ABZ012
			Chlordane	LT	6. -01	ug/g	ABZ012
			p-Chlorophenylmethyl Sulfide	LT	4. +00	ug/g	ABZ012

Note: Results for Dibromochlorocropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopenadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 : Site 1-10

site	1-10	South	Tank	Farm
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Boring Number	Depth (ft)	Sample Type	Analytical Parameters		Results	Units	Sample Number
			Parameter	Value			
0013	0-1	soil	p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ012	
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ012	
			Chromium	LT 6.5 +00	ug/g	ABF007	
			Copper	LT 4.7 +00	ug/g	ABF007	
			Dibromochloropropane	LT 3. -01	ug/g	ABZ012	
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ012	
			Vapona	LT 3. -01	ug/g	ABZ012	
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ012	
			Dithiane	LT 7. +00	ug/g	ABZ012	
			Dieldrin	LT 3. -01	ug/g	ABZ012	
			Endrin	LT 3. -01	ug/g	ABZ012	
			Mercury	LT 5.0 -02	ug/g	AAL019	
			Isodrin	LT 3. -01	ug/g	ABZ012	
			Malathion	LT 3. -01	ug/g	ABZ012	
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ012	
			Lead	LT 8.4 +00	ug/g	ABF007	
			Dichlorodiphenylmethane	LT 3. -01	ug/g	ABZ012	
			Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	ABZ012	
			Parathion	LT 4. -01	ug/g	ABZ012	
			2-Chloro-1-(2,4-Dichlorophenyl) Vinyldiethyl Phosphates	LT 3. -01	ug/g	ABZ012	

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions. Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
Summary of Analytical Results

Rocky Mountain Arsenal Program
Task 2 , Site 1-10 South Tank Farm

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Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0013	0-1	Soil	Zinc	2.5 +01	ug/g	ABF007
0013	4-5	Soil	1,1,1-Trichloroethane	LT 3. -01	ug/g	ABR007
			1,1,2-Trichloroethane	LT 3. -01	ug/g	ABR007
			1,1-Dichloroethane	LT 9. -01	ug/g	ABR007
			1,2-Dichloroethane	LT 3. -01	ug/g	ABR007
			m-Xylene	LT 7. -01	ug/g	ABR007
			Aldrin	LT 3. -01	ug/g	ABZ013
			Arsenic	LT 5.0 +00	ug/g	AAX008
			Atrazine	LT 3. -01	ug/g	ABZ013
			Bicycloheptadiene	LT 3. -01	ug/g	ABR007
			Benzene	LT 3. -01	ug/g	ABR007
			Carbon Tetrachloride	LT 3. -01	ug/g	ABR007
			Cadmium	LT 7.4 -01	ug/g	ABF008
			Methylene Chloride	LT 7. -01	ug/g	ABR007
			Chloroform	LT 3. -01	ug/g	ABR007
			Hexachlorocyclopentadiene	LT 3. -01	ug/g	ABZ013
			Chlorobenzene	LT 3. -01	ug/g	ABR007
			Chlordane	LT 6. -01	ug/g	ABZ013
			p-Chlorophenylmethyl Sulfide	LT 4. +00	ug/g	ABZ013
			p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ013
			p-Chlorophenylmethyl Sulfone	LT 6. -01	ug/g	ABZ013

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Summary of Analytical Results

Task 2 , Site 1-10

South Tank Farm

Boring Number	Depth (ft)	Sample Type	Analytical Parameters	Results	Units	Sample Number
0013	4-5	Soil	Chromium	LT 6.5 +00	ug/g	ABF008
			Copper	5.0 +01	ug/g	ABF008
			Dibromochloropropane	LT 4. -01	ug/g	ABR007
			Dibromochloropropane	LT 3. -01	ug/g	ABZ013
			Dicyclopentadiene	LT 3. -01	ug/g	ABR007
			Dicyclopentadiene	LT 4. -01	ug/g	ABZ013
			Vapors	LT 3. -01	ug/g	ABZ013
			Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABZ013
			Dithiane	LT 7. +00	ug/g	ABZ013
			Dieleadrin	LT 3. -01	ug/g	ABZ013
			Dimethyl disulfide	LT 8. -01	ug/g	ABR007
			Endrin	LT 3. -01	ug/g	ABZ013
			Ethylbenzene	LT 3. -01	ug/g	ABR007
			Mercury	LT 5.0 -02	ug/g	AAF005
			Isodrin	LT 3. -01	ug/g	ABZ013
			Toluene	LT 3. -01	ug/g	ABR007
			Methylisobutyl Ketone	LT 3. -01	ug/g	ABR007
			Malathion	LT 3. -01	ug/g	ABZ013
			1,4-Oxathiane	LT 6. +00	ug/g	ABZ013
			Lead	1.6 +01	ug/g	ABF008
			Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ013

Note: Results for Dibromochloropropane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Ebasco Services Incorporated
 Summary of Analytical Results

Rocky Mountain Ar serial Program
 Task 2 , Site 1-10 South Tank Farm

10/16/86

Boring Number	Depth (ft)	Sample Type	Analytical Parameters			Results	Units	Sample Number
0013	4-5	Soil	Dichlorodiphenyltrichloro-ethane	LT	6.	-01	ug/g	ABZ013
			Parathion	LT	4.	-01	ug/g	ABZ013
			2-Chloro-1(2,4-Dichlorophenyl) Vinylidethyl Phosphates	LT	3.	-01	ug/g	ABZ013
			Trans-1,2-Dichloroethene	LT	3.	-01	ug/g	ABR007
			Tetrachloroethene	LT	3.	-01	ug/g	ABR007
			Trichloroethene	LT	3.	-01	ug/g	ABR007
			Ortho- & Para-Xylene	LT	3.	-01	ug/g	ABR007
			Zinc	1.1	+02		ug/g	ABF008

Note: Results for Dibromochloroethane (DBCP) may appear in up to two analytical fractions.
 Results for Dicyclopentadiene (DCPD) may appear in up to two analytical fractions.

Appendix C

Associated Blanks

APPENDIX C
Blanks Associated with Phase I Analytical Work

Control samples, or blanks, are introduced into the train of environmental samples to function as monitors on the performance of the analytical method. These samples function as quality control (QC) samples, and are an integral part of the quality assurance (QA) program for the project. The method blanks listed in this Appendix were utilized to verify that the laboratory was not a source of sample contamination. If contamination was detected in a method blank, corrective actions were taken to assure that reported concentrations of target constituents reflected sample constituents, and not constituents introduced by the laboratory process.

Summary of Analytical Features

Blanks Associated with Task 2, Site 1-10
South Tank Farm

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Mercury	LT 5.0 -02	ug/g	AN1001
Blank	Mercury	LT 5.0 -02	ug/g	AN1001
Blank	Aldrin	LT 3. -01	ug/g	AN010
Blank	Atrazine	LT 3. -01	ug/g	AN010
Blank	Chlordane	LT 6. -01	ug/g	AN010
Blank	Hexachlorocyclopentadiene	LT 3. -01	ug/g	AN010
Blank	p-Chlorophenyl methyl sulfide	LT 4. +00	ug/g	AN010
Blank	p-Chlorophenylmethyl sulfone	LT 7. -00	ug/g	AN010
Blank	p-Chlorophenyl methyl sulfone	LT 6. -01	ug/g	AN010
Blank	1,2,3,4-tetrachloro-1,3-butadiene	LT 5. -01	ug/g	AN010
Blank	1,2,3,4-tetrachloro-1,3-butadiene	LT 4. -01	ug/g	AN010
Blank	Dicyclopentadiene	LT 3. -01	ug/g	AN010
Blank	Vapone	LT 3. -01	ug/g	AN010
Blank	Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	AN010
Blank	Dithiane	LT 7. +00	ug/g	AN010
Blank	Diieldrin	LT 3. -01	ug/g	AN010
Blank	Ergolin	LT 5. -01	ug/g	AN010
Blank	Isocarin	LT 3. -01	ug/g	AN010
Blank	Maxathion	LT 3. -01	ug/g	AN010
Blank	1,1,2-trichloroethane	LT 6. +00	ug/g	AN010
Blank	Dichlorodiphenylmethane	LT 3. -01	ug/g	AN010
Blank	Dichlorodiphenyltrichloroethane	LT 6. -01	ug/g	AN010

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Environmental Services International Inc.
Summary of Analytical Results

February 20, 1987 - Analytical Report
Pesticides Associated with Task 2, Site 1-10
Soc. Test Form

Sample Number	Sample Name	Results	Units	Sample Number	Sample Name	Results	Units	Sample Name	Results	Units						
	Acetylacetone															
Blank	Parathion	L.T. 4.	-01	ug/g	Blank	2-Chloro-(2,4-dichlorophenyl)-Vinylidetri Phosphates	L.T. 3.	-01	ug/g	Blank	2-Chloro-(2,4-dichlorophenyl)-Vinylidetri Phosphates	L.T. 3.	-01	ug/g	AA0010	AA0010
Blank	Carban Tetrachloride	L.T. 3.	-01	ug/g	Blank	Chloroform	L.T. 3.	-01	ug/g	Blank	Chlorobenzene	L.T. 3.	-01	ug/g	AA0001	AA0001
Blank	Chloroform	L.T. 3.	-01	ug/g	Blank	Benzene	L.T. 3.	-01	ug/g	Blank	1,1-Dichloroethane	L.T. 4.	-01	ug/g	AA0011	AA0011
Blank	1,2-Dichloroethane	L.T. 3.	-01	ug/g	Blank	1,1-Dichloroethane	L.T. 3.	-01	ug/g	Blank	1,2-Dichloroethane	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Dimethylbenzene	L.T. 3.	-01	ug/g	Blank	Ethylbenzene	L.T. 3.	-01	ug/g	Blank	Ethylbenzene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Ethylbenzene	L.T. 3.	-01	ug/g	Blank	Isobutene	L.T. 3.	-01	ug/g	Blank	Isobutene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Isobutene	L.T. 3.	-01	ug/g	Blank	Methylisobutyl Ketone	L.T. 3.	-01	ug/g	Blank	Methylisobutyl Ketone	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Tetrachloroethene	L.T. 3.	-01	ug/g	Blank	Tetrachloroethene	L.T. 3.	-01	ug/g	Blank	Tetrachloroethene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Trichloroethene	L.T. 3.	-01	ug/g	Blank	Trans-1,2-Dichloroethene	L.T. 3.	-01	ug/g	Blank	Trans-1,2-Dichloroethene	L.T. 3.	-01	ug/g	AA0011	AA0011
Blank	Ortho- & Para-Xylene	L.T. 3.	-01	ug/g	Blank	Ortho- & Para-Xylene	L.T. 3.	-01	ug/g	Blank	Ortho- & Para-Xylene	L.T. 3.	-01	ug/g	AA0011	AA0011

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Environmental Services Incorporated
Summary of Analytical Results

July 1990 - Sampling for Serial Program
Elants Associated with Iod. 2, Site 2-10
South Tank Farm

Type	Analytical Parameters	Results	Units	Sample Number
Blank	1,1,1-Trichloroethane	LT 3. -01	ug/g	AA0011
Blank	1,1,2-Trichloroethane	LT 2. -01	ug/g	AA0011
Blank	m-Xylene	LT 7. -01	ug/g	AA0011
Blank	Mercury	LT 5.0 -02	ug/g	AA0011
Blank	Arsenic	LT 5.0 +00	ug/g	AAV001
Blank	Arsenic	LT 5.0 +00	ug/g	AAV001
Blank	Antimony	LT 6.0 +00	ug/g	AAV001
Blank	Cadmium	LT 2.4 -01	ug/g	AAV001
Blank	Chromium	LT 1.5 -01	ug/g	AAV001
Blank	Copper	LT 1.5 +01	ug/g	AAV001
Blank	Iron	LT 8.4 +00	ug/g	AAV001
Blank	Lead	LT 4.5 +01	ug/g	AAV001
Blank	Zinc	LT 7.4 -01	ug/g	AAV001
Blank	Caesium	LT 1.5 +01	ug/g	AAE001
Blank	Chromium	LT 1.1 +01	ug/g	ABE001
Blank	Copper	LT 6.5 +01	ug/g	ABE001
Blank	Lead	LT 2.4 +00	ug/g	ABE001
Blank	Zinc	LT 1.7 +01	ug/g	ABF001
Blank	Caesium	LT 8.8 +00	ug/g	ABF001
Blank	Chromium	LT 1.2 +01	ug/g	ABF001
Blank	Copper	LT 1.2 +01	ug/g	ABF001
Blank	Lead	LT 1.2 +01	ug/g	ABF001

Note: Elants are matched to analytical lots by the first three characters in the Sample Number.

Elanco Services Incorporated

Sensitivity Determination

Isomers Associated with Task Z, Site 1-10
Soybean Tank Farm

Summary of Analytical Results

C-9, 1982

Type	Analytical Parameters	Results	Units	Sample Number
Blank	None	4.6 +01	ug/g	ABF001
Blank	Chloroform	LT 7.4 -01	ug/g	ABG001
Blank	Chromium	1.7 +01	ug/g	ABG001
Blank	Copper	1.1 +01	ug/g	ABG001
Blank	Lead	LT 8.4 +00	ug/g	ABG001
Blank	Zinc	4.6 +01	ug/g	ABG001
Blank	Mercury	LT 5.0 -02	ug/g	ABJ001
Blank	Argentic	LT 5.0 +00	ug/g	ABJ001
Blank	Picloram	LT 3. -01	ug/g	ABJ001
Blank	Carboxylic Acid	LT 5. -01	ug/g	ABJ001
Blank	Chloroform	LT 3. -01	ug/g	ABJ001
Blank	Methylene Chloride	LT 7. -01	ug/g	ABJ001
Blank	Chlorobenzene	LT 3. -01	ug/g	ABJ001
Blank	Benzene	LT 3. -01	ug/g	ABJ001
Blank	Dibromochloropropane	LT 4. -01	ug/g	ABJ001
Blank	Cyclopentadiene	LT 3. -01	ug/g	ABJ001
Blank	Dimethyl sulfide	LT 8. -01	ug/g	ABJ001
Blank	Ethylibenzene	LT 3. -01	ug/g	ABJ001
Blank	Toluene	LT 3. -01	ug/g	ABJ001
Blank	Methylisotulyl ketone	LT 3. -01	ug/g	ABJ001
Blank	Tetrachloroethene	LT 3. -01	ug/g	ABJ001

Note: Blanks are matched to analytical lots by the first three characters in the sample number.

State Services Incorporated
Summary of Analytical Results

Rocky Mountain Argentia Program
Samples Associated with Test 2, Site 1-10
South Tank Farm

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Trichloroethene	LT 3. -01	ug/g	AB0001
Blank	Trans-1,2-Dichloroethene	LT 3. -01	ug/g	AB0001
Blank	Ortho- & Para-Xylene	LT 3. -01	ug/g	AB0001
Blank	1,1-Dichloroethane	LT 3. -01	ug/g	AB0001
Blank	1,1,1-Trichloroethane	LT 3. -01	ug/g	AB0001
Blank	1,1,2-Trichloroethane	LT 3. -01	ug/g	AB0001
Blank	1,2-Dichloroethane	LT 3. -01	ug/g	AB0001
Blank	m-Xylene	LT 7. -01	ug/g	AB0001
Blank	Eicycloheptadiene	LT 3. -01	ug/g	AB0001
Blank	Cyclo-Tetrachloroethane	LT 3. -01	ug/g	AB0001
Blank	Chloroform	LT 3. -01	ug/g	AB0001
Blank	Methylene Chloride	LT 3. -01	ug/g	AB0001
Blank	Chlorobenzene	LT 3. -01	ug/g	AB0001
Blank	Benzene	LT 3. -01	ug/g	AB0001
Blank	Dibromo-chloropropane	LT 4. -01	ug/g	ABR001
Blank	Dicyclo-pentadiene	LT 3. -01	ug/g	ABR001
Blank	Dimethyl-disulfide	LT 8. -01	ug/g	ABR001
Blank	Ethylibenzene	LT 3. -01	ug/g	ABR001
Blank	Toluene	LT 3. -01	ug/g	ABR001
Blank	Methylisobutyl Ketone	LT 3. -01	ug/g	ABR001
Blank	Tetrachloroethene	LT 3. -01	ug/g	ABR001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Summary of Analytical Results

Element Associated with Task 2, Site 1-10
South Tank Farm

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Trichloroethane	LT 3. -01	ug/g	AER001
Blank	trans-1,2-Dichloroethylene	LT 3. -01	ug/g	AER001
Blank	Ortho- & Para-Xylylene	LT 3. -01	ug/g	AER001
Blank	1,1-Dichloroethane	LT 9. -01	ug/g	AER001
Blank	1,1,1-Trichloroethane	LT 3. -01	ug/g	AER001
Blank	1,1,2-Trichloroethane	LT 3. -01	ug/g	AER001
Blank	1,2-Dichloroethane	LT 3. -01	ug/g	AER001
Blank	an-ketone	LT 7. -01	ug/g	AER001
Blank	Aldrin	LT 3. -01	ug/g	AES015
Blank	Atrazine	LT 3. -01	ug/g	AES015
Blank	Chlordane	LT 6. -01	ug/g	AES015
Blank	Hexachlorocyclohexadiene	LT 3. -01	ug/g	ABSO15
Blank	p-Chlorophenylmethyl Sulfoxide	LT 4. +00	ug/g	ABSO15
Blank	p-Chlorophenylmethyl Sulfone	LT 7. +30	ug/g	ABSO15
Blank	p-Chlorophenylmethyl Sulfoxide	LT 6. -01	ug/g	ABSO15
Blank	Diuronchloropropene	LT 3. -01	ug/g	ABSO15
Blank	Cyclopentadiene	LT 4. -01	ug/g	ABSO15
Blank	Vapona	LT 3. -01	ug/g	ABSO15
Blank	Diisopropylmethyl Phosphonate	LT 3. -01	ug/g	ABSO15
Blank	Dithiane	LT 7. +00	ug/g	ABSO15
Blank	Dieldrin	LT 3. -01	ug/g	ABSO15

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.

Summary of Analytical Results

Figures Associated with Task 2, Site 200
South Tunki, Franklin

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Endrin	LT 3. -01	ug/g	AB5015
Blank	Isodrin	LT 3. -01	ug/g	AB5015
Blank	Methion	LT 3. -01	ug/g	AB5015
Blank	2,6-Dinitro-	LT 6. +00	ug/g	AB5015
Blank	2,6-Dinitro-	LT 3. -01	ug/g	AB5015
Blank	Dichlorodiphenylmethane	LT 6. -01	ug/g	AB5015
Blank	Dichlorodiphenyltrichloro-	LT 4. -01	ug/g	AB5015
Blank	ethane	LT 3. -01	ug/g	AB5015
Blank	Parathion	LT 4. -01	ug/g	AB5015
Blank	2-Chloro-2-(2,6-dichlorophenoxy)vinylidene Phosphates	LT 3. -01	ug/g	AB5015
Blank	4-Amin	LT 3. -01	ug/g	ABZ001
Blank	4-Amin	LT 3. -01	ug/g	ABZ001
Blank	Chlordane	LT 6. -01	ug/g	ACZ001
Blank	Hexachlorocyclooctadiene	LT 3. -01	ug/g	ABZ001
Blank	p-Chlorophenylmethyl Sulfoxide	LT 6. +00	ug/g	ABZ001
Blank	p-Chlorophenylmethyl Sulfoxide	LT 7. +00	ug/g	ABZ001
Blank	p-Chlorophenylmethyl Sulfoxide	LT 6. -01	ug/g	ABZ001
Blank	Dibromochloroepipropene	LT 3. -01	ug/g	ABZ001
Blank	Dicyclopentadiene	LT 4. -01	ug/g	ABZ001
Blank	Vapona	LT 3. -01	ug/g	ABZ001
Blank	Diisopropylmethyl Phosphonate	LT 3. +00	ug/g	ABZ001
Blank	Dithiane	LT 7. +00	ug/g	ABZ001

note: Blanks are matched to analytical lots by the first three characters in the sample number.

Summary of Analytical Results

Elevens Associated with Task 2, Site 1-10
South Tank Farm

Type	Analytical Parameters	Results	Units	Sample Number
Blank	Uieldrin	LT 3. -01	ug/g	ABZ001
Blank	Endrin	LT 3. -01	ug/g	AEZ001
Blank	Isodrin	LT 3. -01	ug/g	AEZ001
Blank	Malathion	LT 3. -01	ug/g	ABZ001
Blank	1,4-Oxathiane	LT 6. +00	ug/g	AEZ001
Blank	Dichlorodiphenylethane	LT 3. -01	ug/g	ABZ001
Blank	Dichlorodiphenyltrichloro-ethane	LT 6. -01	ug/g	AEZ001
Blank	Parathion	LT 4. -01	ug/g	ABZ001
Blank	2-Chloro-1(2,4-Dichlorophenyl)Vinylidethyl Phosphates	LT 3. -01	ug/g	AEZ001
Blank	Dibromochloropropene	LT 5.0 -03	ug/g	AL3001

Note: Blanks are matched to analytical lots by the first three characters in the Sample Number.